



# Pneumatic conveying

**Kongskilde conveying systems  
for granular materials**

# Granulate and flakes



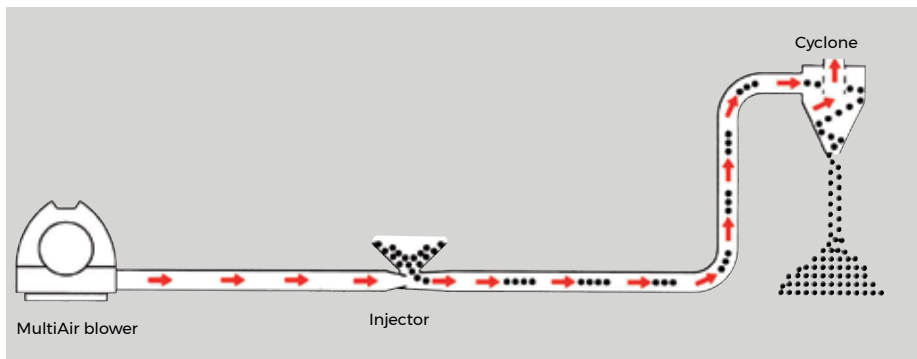
For over 60 years Kongskilde has been at the forefront of materials handling using high pressure blowers. These systems are now common place in many factories around the World to convey granules, pellets, flakes and other moulded items in an efficient manner.

The conveying of these materials can be done using either a positive or negative pressure systems depending on the client's requirements. Using Kongskilde's unique standard modular components these systems can be built quickly,

are easily modified if necessary and the capacity can be increased at a later date by changing a few components making them an extremely versatile way to convey material.

The Kongskilde MultiAir high pressure blower is the 'heart' of many of these systems which produces the air volume and pressure required to convey the material. The MultiAir is able to convey the material over long distances and at high capacity depending on the client's requirements.

## Injector system

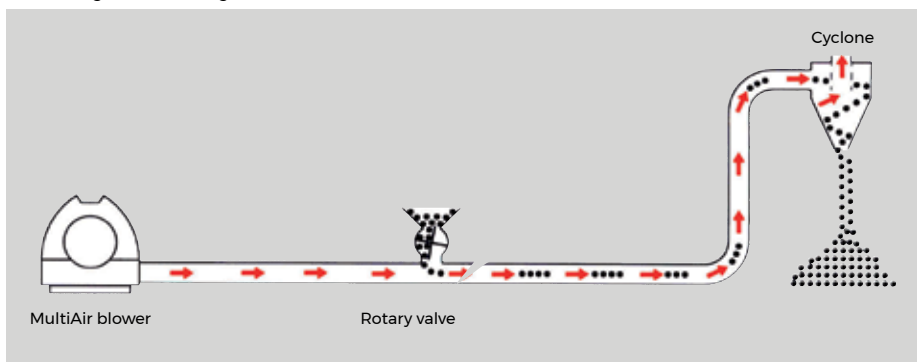


The injector system is ideally suited for low capacity installations. The injector is feeding the material into the positive air stream generated by the MultiAir blower. The cyclone is separating the material from the air stream at the discharge point.



Injector TF.

## Rotary valve system



The rotary valve system is suited for both high and low capacity installations. The rotary valve is feeding the material into the positive air stream generated by the MultiAir blower. The cyclone is separating the material from the air stream at the discharge point.



Rotary valve RF.



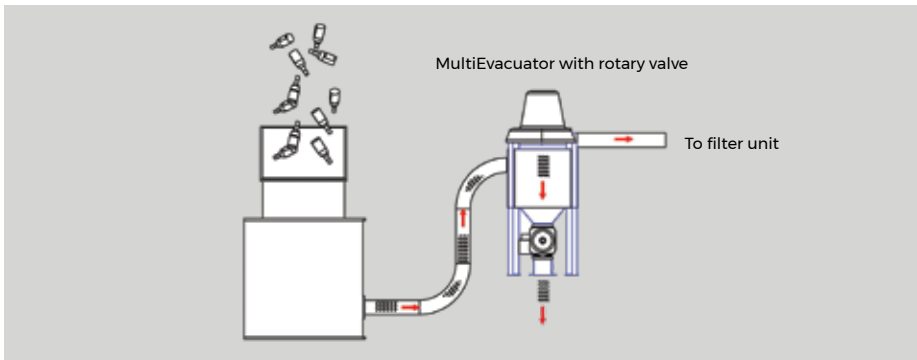
These systems are relatively low maintenance and are able to run effortlessly 24/7 ensuring a worry free operation for the client.

The vacuum pressure system is ideally suited for conveying from various collecting points to different destinations. The material can be moved horizontally and vertically. The high-performance Kongskilde suction blowers, combined

with the simple and flexible Kongskilde OK pipe system, will fit in anywhere, irrespective of building facilities.

The Kongskilde MultiEvacuator system is ideally suited for evacuating granulators via vacuum. The MultiEvacuator vacuum system can be tailor-made to meet most conveying demands from process to process or, to and from a storage facility.

### Vacuum system

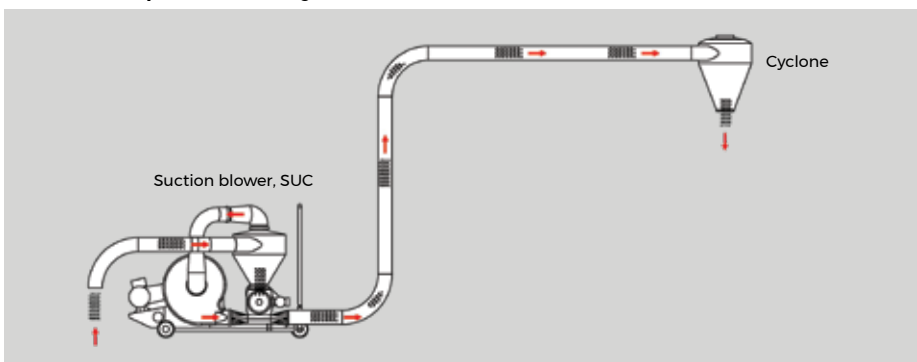


Ideally suited for evacuating Granulators via vacuum and releasing the material by gravity vertically through a rotary valve. The vacuum air is then discharged and can be routed through a dust filtration system to filter the conveying air.



MultiEvacuator.

### Vacuum pressure system



This system is ideally suited for applications requiring vacuum from multiple sources 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 etc.



Suction blower.

# Rejects, EPS, tissue paper off-cuts, etc.



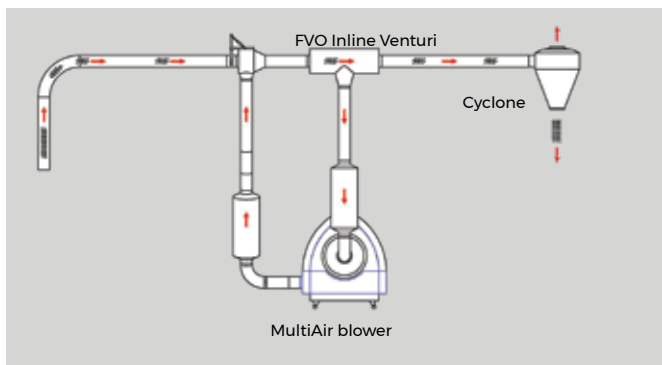
With Kongskilde's versatile modular components, these systems can be used in many different applications such as handling rejects (tops/tails, sprues & flash) in an efficient manner reducing the bottle neck effect commonly caused by process waste. These systems free man power and improve production rates allowing for higher profit.

A Kongskilde conveying system can be linked to size reduction equipment that can in turn be linked to a Kongskilde aspirator allowing for closed loop recycling.

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.

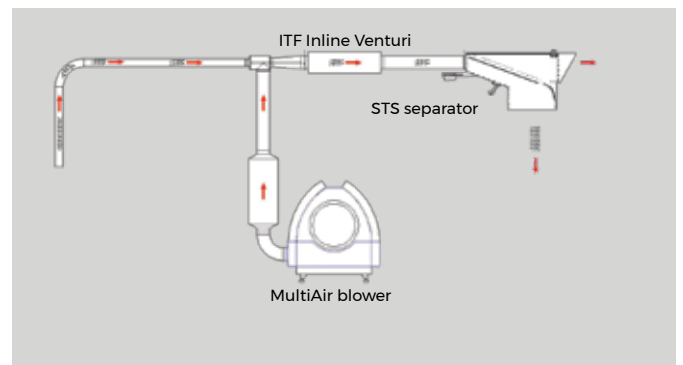
Using Kongskilde's patented FVO Venturi and ITF Venturi finished items, large items and odd shaped items such as plastic bottles/containers can be conveyed as either approved items or rejects for recycling. Pipe diameters can range from 80 - 600mm depending on the product size.

## FVO system



Blower develops air pressure and when it passes through the FVO Venturi it creates a vacuum at the source pulling the trim into the system, after the trim and air flow passes through the venturi the system turns to a pressure system pushing the trim to the discharge. With the air return in the line it allows for the blower to pull back out airflow enabling the pipe system not having to be upsized to handle the extra air volume generated at the venturi.

## ITF system



Blower develops air pressure and when it passes through the ITF Venturi it creates a vacuum at the source pulling the trim into the system, after the trim and air flow passes through the venturi the system turns to a pressure system pushing the trim to the discharge.

Subject to be changed without notice. 123001463 EXP/CB/Pneumatic Conveying/0319

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