

A close-up photograph of industrial machinery. A white cylindrical component is connected to a metal pipe. A black and yellow Baumer electric sensor is mounted on the machinery. A thin white strip of material is being processed. The background shows a factory setting with metal frames and pipes.

# Trim handling

**Pneumatic conveying  
of plastic and paper trims**

# Endless trim



Kongskilde waste extraction systems can handle trims from film and foil production machines (cast lines) and converting machines (slitters/re-winders).

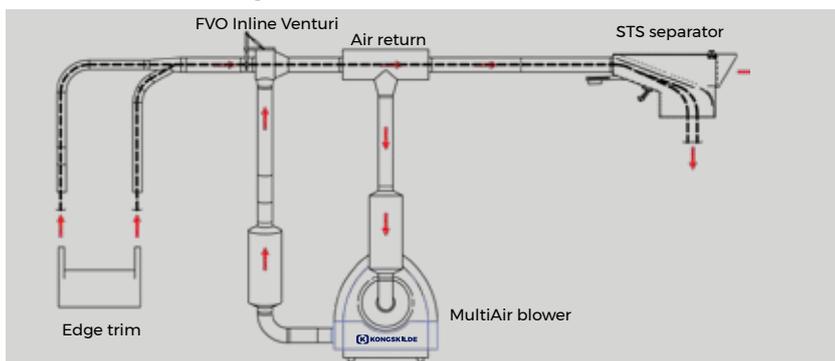
With the patented FVO Venturi and the ITF Venturi, Kongskilde is able to convey endless trim at over 1000m/min\*. These venturi systems are a tried and tested way of conveying endless trim in many applications.

Coupled with the Kongskilde MultiAir they are cost effective and extremely low maintenance way of handling endless trim with huge savings on labour over traditional spooling.

With the FVO Venturi it can be placed anywhere in the conveying line with no loss in performance which allows the venturi and blower to be placed in the most convenient position for the customer meaning minimum impact on the factory layout.

\* Depending on material specification & conveying distance.

## FVO Venturi system

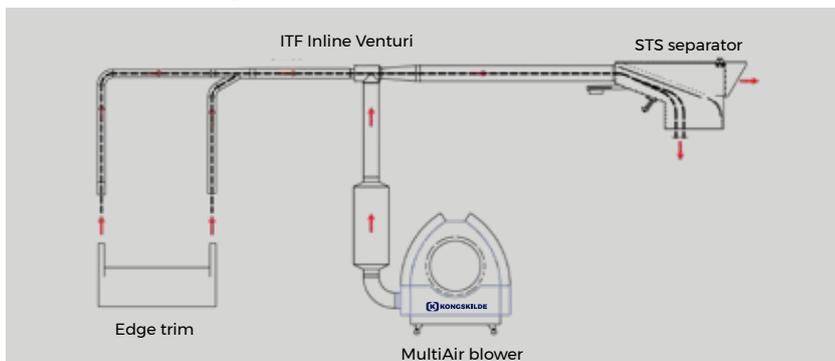


Blower develops air pressure and when it passes through the FVO Venturi it creates a vacuum at the source pulling the trim into the system, after the trim and air flow passes through the venturi the system turns to a pressure system pushing the trim to the discharge. With the air return in the line it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



FVO Inline Venturi.

## ITF Venturi system

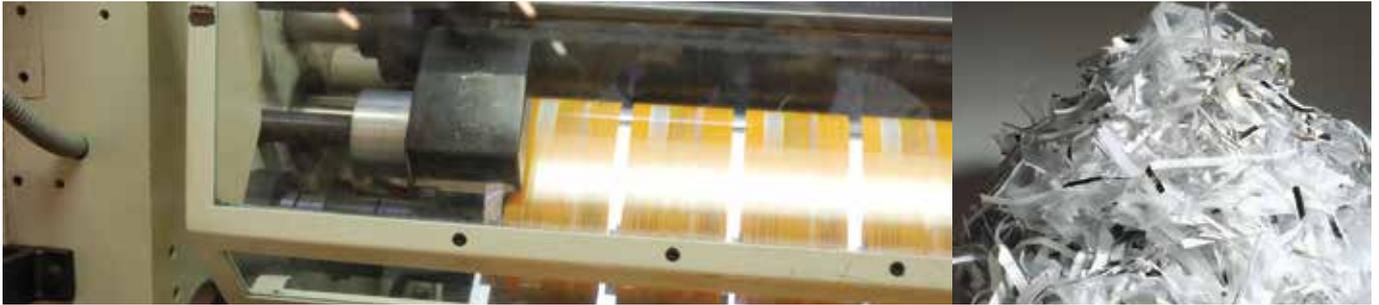


Blower develops air pressure and when it passes through the ITF Venturi it creates a vacuum at the source pulling the trim into the system, after the trim and air flow passes through the venturi the system turns to a pressure system pushing the trim to the discharge.



ITF Inline Venturi.

# Cut trim



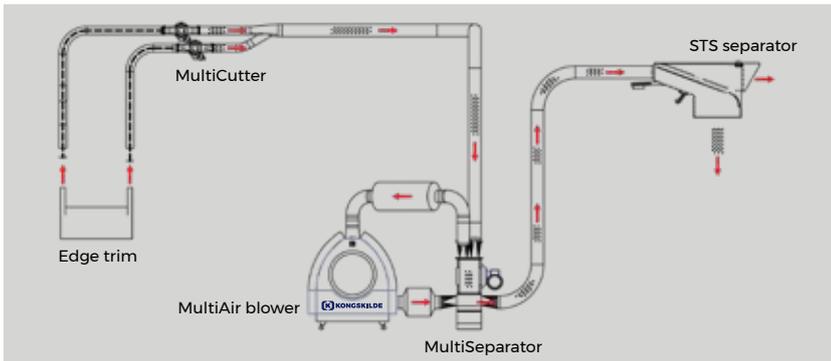
Integrating Kongskilde's precision MultiCutter or the heavy duty MC 3000 can have added benefits for a trim extraction system. The two main benefits are that the volume of the waste is drastically reduced at the discharge point and the second benefit is that the cut trim can be conveyed over longer distances.

Combining these cutters with an RVS MultiSeparator the volumes conveyed can be high and also in a more energy

efficient way due to the high operating pressures and low pressure loss of the system.

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.

## RVS MultiSeparator system

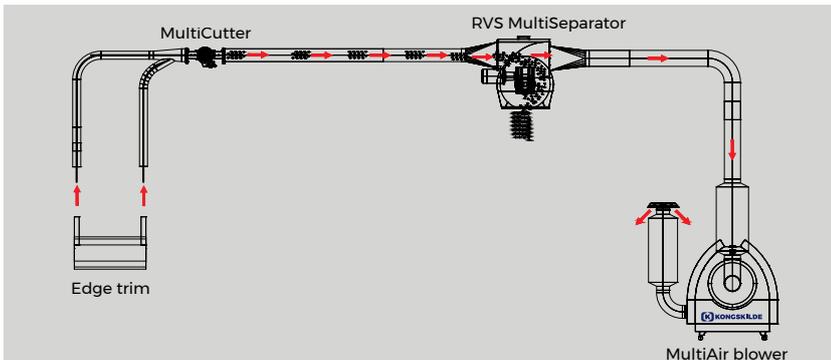


Using the Kongskilde MultiSeparator RVS 75 enables the removal, by suction of small sized waste material from production lines involved in the manufacture of paper, plastic foil, aluminium foil and packaging material. The RVS 75 separates light material from the suction line air stream and re-introduces it into the pressure line. The RVS 75 MultiSeparator is particularly suitable for installations where a strong suction effect is essential.



RVS MultiSeparator.

## RVS MultiSeparator system



This system utilizes the vacuum side of the blower creating a negative system pulling cut trim pieces into the RVS MultiSeparator. The RVS MultiSeparator is a slow turning valve where the air and material separation occurs allowing the material to discharge vertically via gravity and the air and dust particulate to continue to the blower and ultimately have the air flow pass through a filter prior to being released.



RVS MultiSeparator.

# Cutter and STS separator



| MultiCutter

The Kongskilde MultiCutter can be used in conveying systems for cutting trim from film blowing, packaging & paper production machines as well slitters.

The MultiCutter has a fixed and rotating blade which has a unique 'scissor' like cutting action allowing very thin film to be cut right up to 400 micron. The blades are made from specially hardened steel which offers great resistance to wear and longevity of life. Adjustment and re-sharpening of the blade sets is possible and is the only form of maintenance.



| STS separator

The Kongskilde STS separator is an efficient static separator used to separate thin, light materials from the conveying air stream at the discharge point.

This static separator can handle process waste such as edge trim, die cut skeletons, light paper and plastic materials.

The unique self-adjusting bottom plate in the separation chamber eliminates turbulence that can commonly stop the material from being discharged continually during high speed material conveying.



**Kongskilde Industries A/S**

Tel.: +45 72 17 60 50

[industry@kongskilde-industries.com](mailto:industry@kongskilde-industries.com)

[www.kongskilde-industries.com](http://www.kongskilde-industries.com)