

A close-up photograph of industrial machinery, likely a trim handling system. The image shows a complex arrangement of metal pipes, rollers, and a sensor. A prominent feature is a black Baumer electric sensor with a yellow label that reads "CAUTION LASER RADIATION", "Baumer electric", "CH-8501 Frauentfeld", and "97010115P5001/S123". The sensor is mounted on a metal frame. In the background, there are more rollers and a white cylindrical component. The overall scene is brightly lit, highlighting the metallic surfaces.

Trim Handling Systems

**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 ITF Venturi, we are 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.

The ITF Venturi when paired with a KIV air return system can be placed anywhere in the conveying line with no loss in performance. This allows the venturi and blower to be placed in the most convenient position for each unique system, and results in minimal impact on the factory layout.

How it works

ITF venturi

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.

**Depending on material specification & conveying distance.*

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.

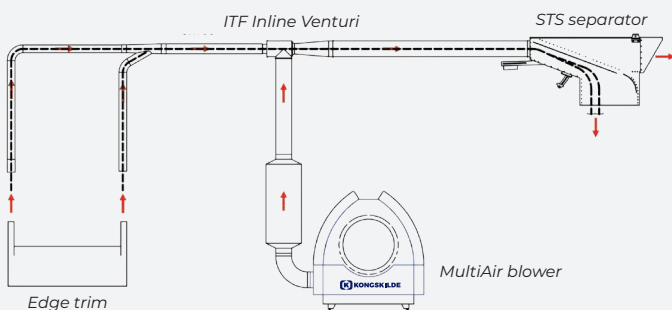
Benefits of a venturi system

- Cost effective and extremely low maintenance.
- Increased savings on labor compared to traditional trim winders.
- Compatible with many different applications.
- Flexible placement within a system.

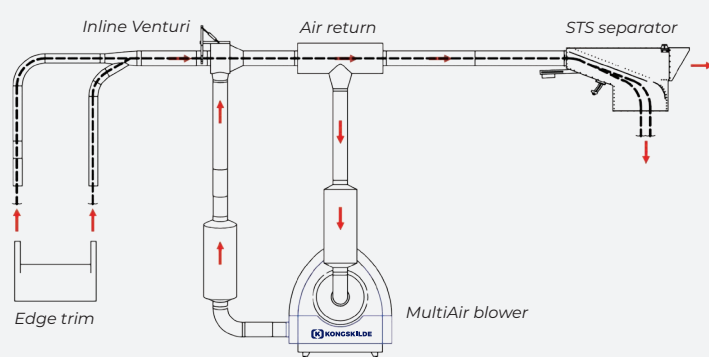


| ITF venturi powered by a MultiAir blower.

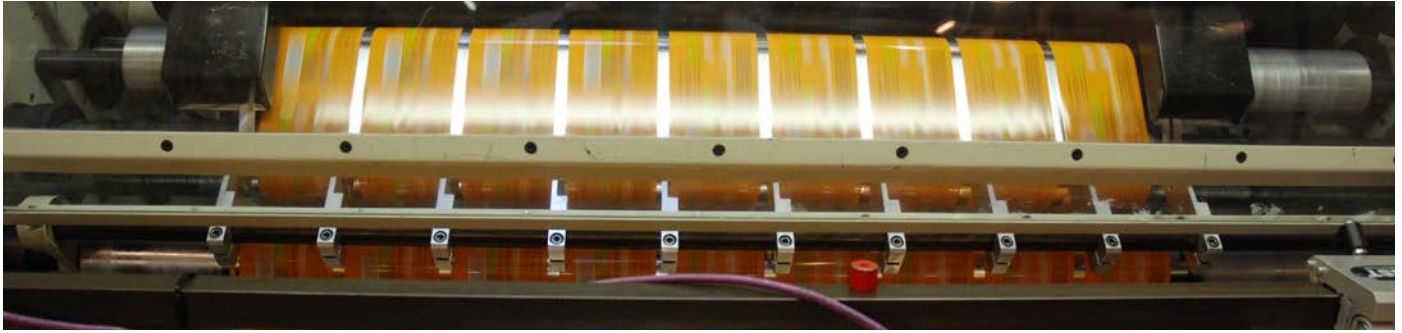
ITF Venturi System



ITF Venturi with KIV Air Return



Cut Trim



Kongskilde trim cutting systems are designed to keep up with the demands of modern day high-speed productions.

Integrating Kongskilde's precision MultiCutter or the heavy duty MC 3000 can have many 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 cut trim can be conveyed over longer distances.

The RVS-H MultiSeparator is developed and tested with a primary focus on the high-performance suction power that is required in high speed trim extraction systems. The MultiSeparator is also more energy efficient due to the high operating pressures and low level of pressure loss within the system.



How it works

MultiCutter

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 increase the longevity of life. Adjustment and re-sharpening of the blade sets is possible and is the only form of maintenance.



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

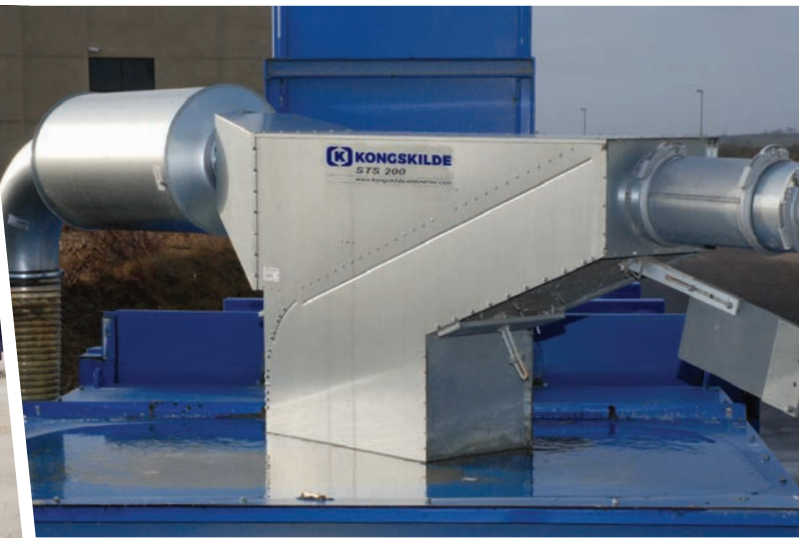
MultiSeparator

The RVS-H MultiSeparator is a slow turning valve where the air and material separation occurs. This allows the material to discharge vertically via gravity, and for the air and dust particulate to continue through to the blower. Ultimately, the air flow passes through a filter prior to being released to ensure high quality output.

The RVS MultiSeparator is particularly suitable for installations where a strong suction effect is essential.

In combination with Kongskilde's standard range of modular components, the RVS-H is the basis for extremely powerful energy-efficient extraction solutions.





MultiAir Blower and STS Separator

MultiAir blower

The Kongskilde MultiAir high pressure blower is the 'heart' of many Kongskilde solutions and can be found in installations all over the world. The MultiAir is quiet, clean, and weatherproof, which allows for flexible positioning of the blower either inside the production area or outside the facility.

The MultiAir is available in a variety of sizes, and is able to convey material over long distances and at high capacity, which makes it a versatile solution for any production.

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 located in the separation chamber eliminates turbulence that can commonly stop the material from being discharged continually during high speed material conveying, thus improving production efficiency.



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