

Extraction of Excess Paper, Cardboard, and Plastic by Rotary Separation

**Efficient pneumatic
extraction**

High-Speed Trim Extraction

RVS 5000-20000H

Production machines in the plastic, paper, and packaging industries are continuously developed to run at increasingly higher speeds. An important factor to secure high production capacity is an efficient system to quickly remove excess material such as fast-moving trim from the production area.

The RVS-H MultiSeparator is developed and tested with primary focus on unique technical capabilities to secure the high-performance suction power required in high speed trim extraction systems.

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

New design details have been developed to secure trouble-free running of the unit in downsized plastic film, paper, and cardboard.



Pneumatic Conveying

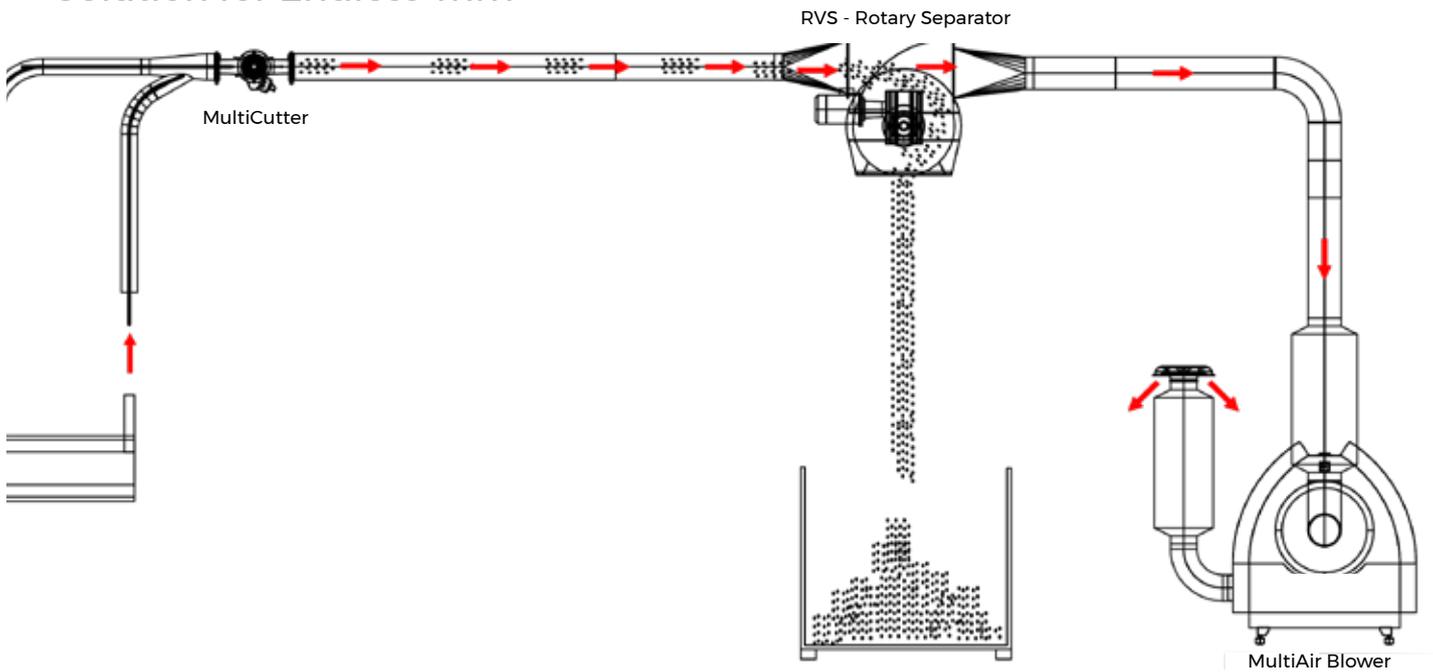
Principal Function

The RVS-H separators perform a key function in the system by separating the conveyed material from the conveying air at the point of delivery of the material. Extraction systems with RVS H rotary separators allows for the use of a high-efficiency clean air blower with minimal power consumption. It generates the air flow which conveys the material from pick-up to discharge.

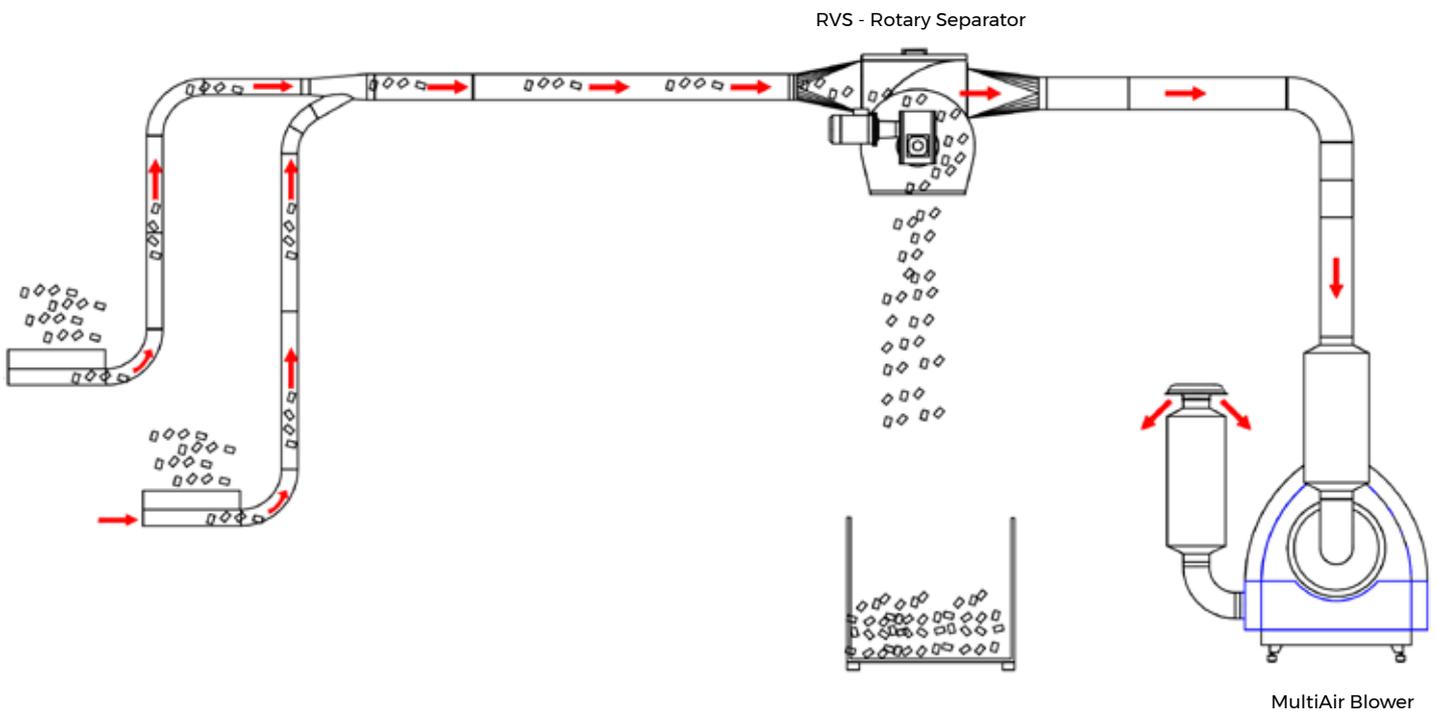
No material passes through the fast-rotating blower impeller preventing dust, downsizing of the material, and excessive wear on the blower.

This system saves energy and assures efficient handling of the material.

Solution for Endless Trim



Solution for Off-Cuts



Outstanding Lifetime

Minimum Stress Load on Parts

RVS-H is equipped with a gear drive mounted directly on the rotor shaft. The torque arm that positions the gear drive is connected to the RVS-H frame with a rubber damper.

The rubber damper reduces the impact and stress loads on the rotating parts inside the unit and thus extends the lifetime of these components.

Scope of Material

Material	Min.	Max.
Aluminum	15 µm	300 µm
Plastic film	10 µm	3 mm
Paper	40 g/m ²	2,800 g/m ²
Corrugated cardboard	1 mm	10 mm

Min. particle size: 6 mm.

Easy Inspection and Maintenance

To get easy access to the inside of the unit, the top part is hinged to the bottom part in such a way that the rotor and sealing are open for inspection and maintenance.

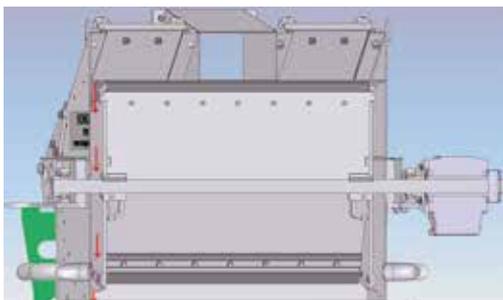


Unique Sealing Solution

To avoid any wrapping of material around the rotor shaft, the Kongskilde engineering team has developed a new sealing and incorporated it into the separator unit.

The sealing prevents the conveyed material from causing damage to the separator unit thus eliminating any risk of affecting the function of the bearing construction.

To keep the bearing area completely free of dust and small particles, a pipe connection is made on each side of the inlet. The vacuum on the inlet side will then extract dust or material to the material inlet side of the separator.



The seals prevent material from getting into the area marked with arrows.



The RVS H Separator separates light material from the suction line air stream. The pipe connection on the side keeps the bearing area completely dust free.

Kongskilde Industries A/S

Tel.: +45 72 17 60 50

industry@kongskilde-industries.com

www.kongskilde-industries.com