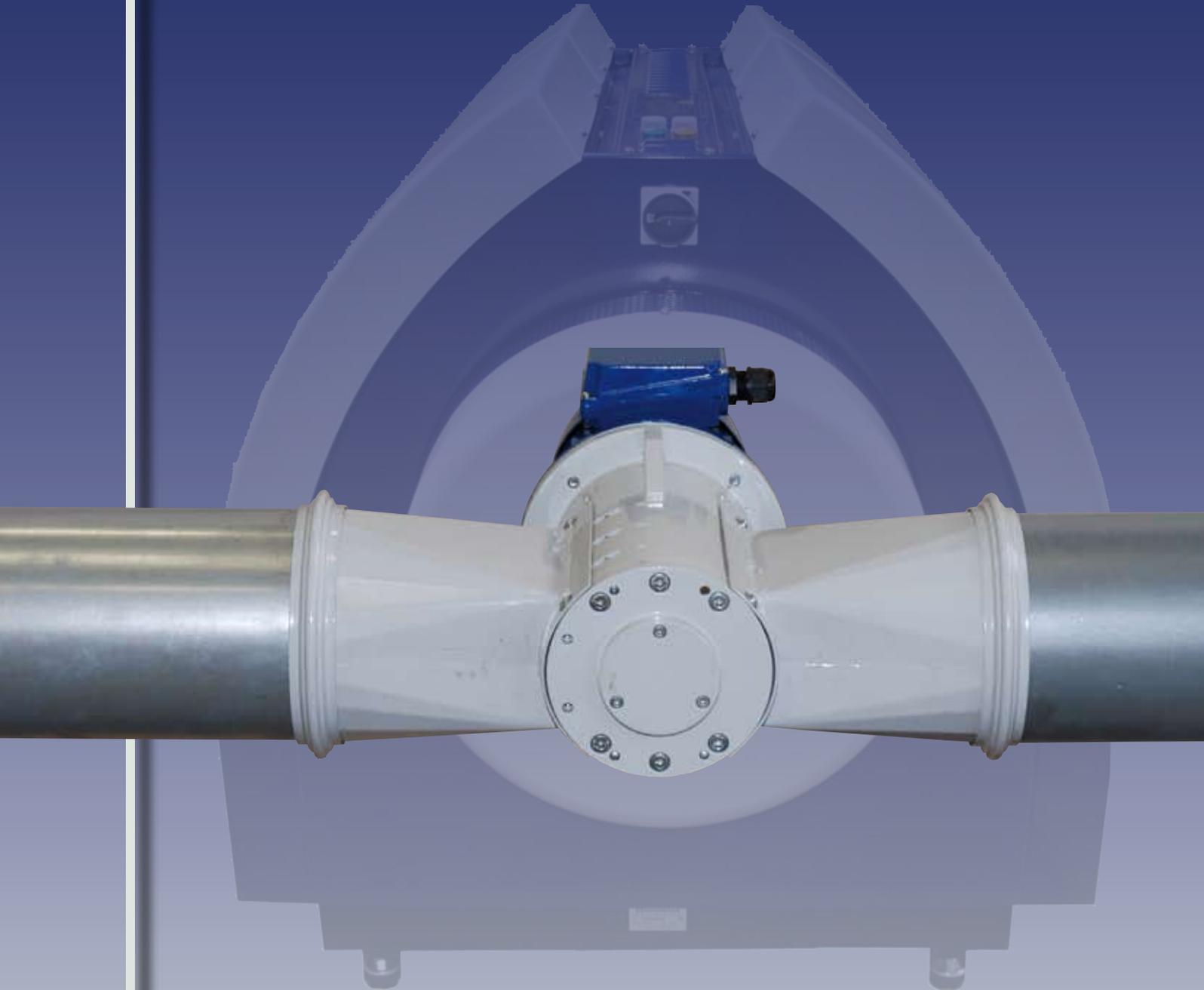


KONGSKILDE

Multicutter System





Strips trimmed with Multicutter.

Conveying of off-cuts and trims over large distances

The Multicutter System collects waste edge trims under vacuum and draws these trims through the Multicutter which cuts the trim into small lengths, thus considerably reducing the volume of the waste product and reducing the compaction/storage costs.

Low installation costs

The Multicutter System is simple to install, the product is drawn directly into the system at the production site. The Multiair blower unit, Multicutter and Multiseparator can be positioned anywhere along the piping transfer route allowing for full integration within the existing factory layout in line with our layout recommendations.

High capacity and excellent operating economy

The Multicutter system has a high capacity, with the air flow at the pick-up points providing sufficient conveying speed to cope with the waste trim from the fastest production machines in the paper, plastic and printing industries.

Similarly the system has the capacity to collect trims from several pick-up points and transfer over several hundred metres to the waste collection/storage point.

High capacity, low energy consumption, (modular design) and reduction in waste storage space make the systems overall economy particularly advantageous.

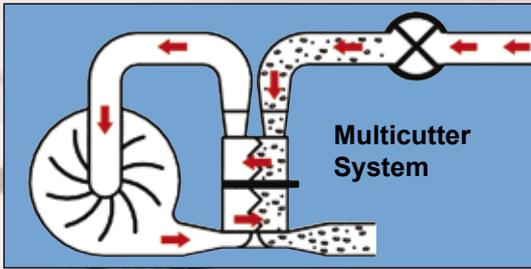
Multiair in connection with Multiseparator provides suction air for collection of the material

A Multicutter System comprises of a Multiair blower unit, a Multicutter, a Multiseparator and a series of components from the OK range of pipes.

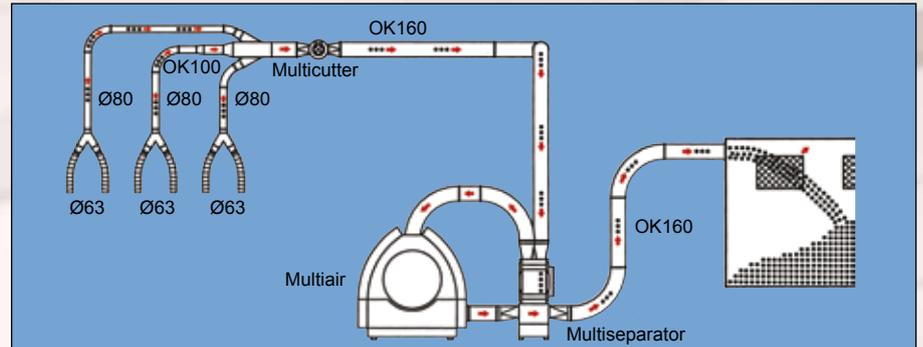
In order to create the necessary suction, the conveying air is sucked through the Multiseparator. This unit is a cellular rotational separation unit which allows for separation of the cut trims from the suction (negative pressure) transport air and the reintroduction of the product into the positive pressure conveying air for transfer to the waste collection area.

The Multiseparator unit is utilized to prevent the passage of waste through the Multiair unit so providing a low maintenance, high efficiency waste handling system.



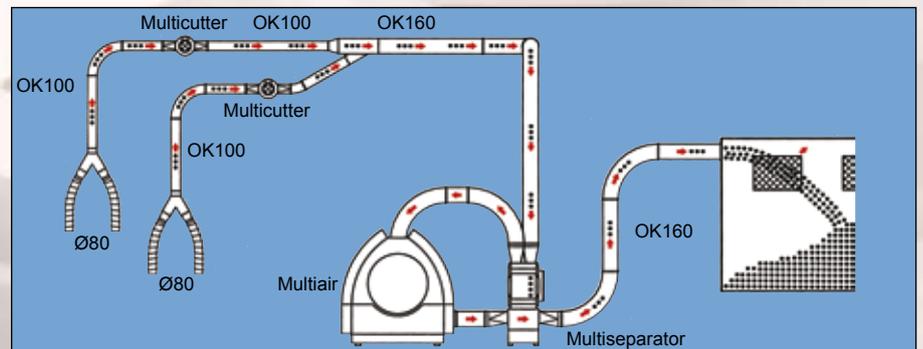


These 3 diagrams are general examples.
The system offers many more alternatives.
Please consult for further technical details.



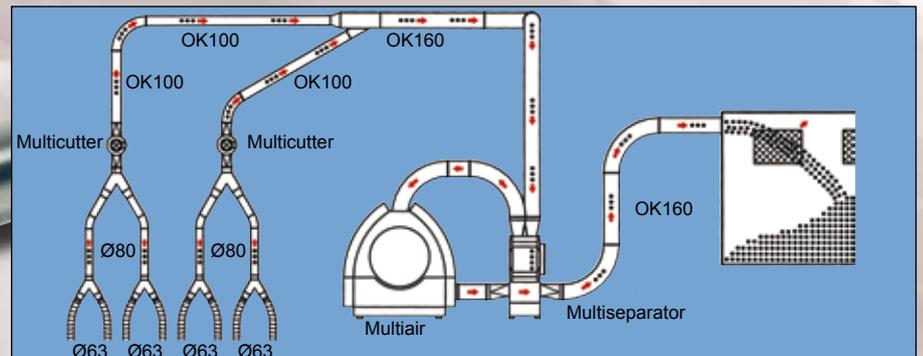
Collective Multicutter

The Multicutter System can be mounted so as to extract from 3 machines, each with 2 edge offcuts.



Multicutter for pick-up points

The most reliable solution to avoid "Bird nests" is to position a Multicutter near every machine. E.g. for 2 machines, each with 2 edge offcuts.

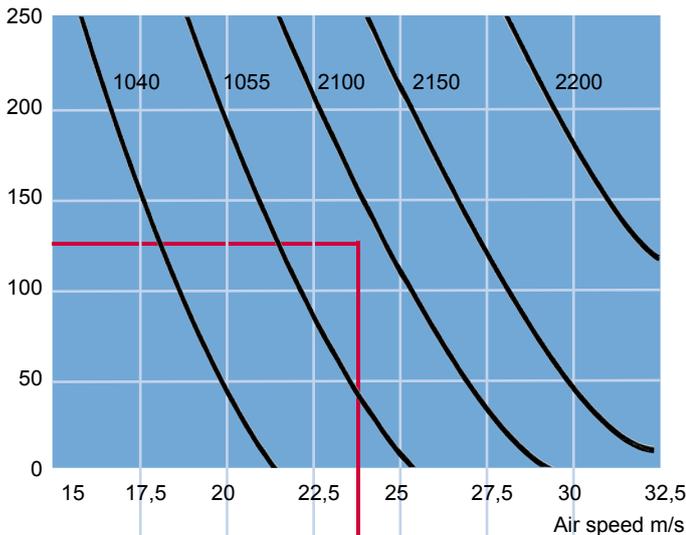


Combination solutions

Several machines can be directed towards a collective Multicutter. The combination here is for 4 machines, each with 2 edge offcuts.

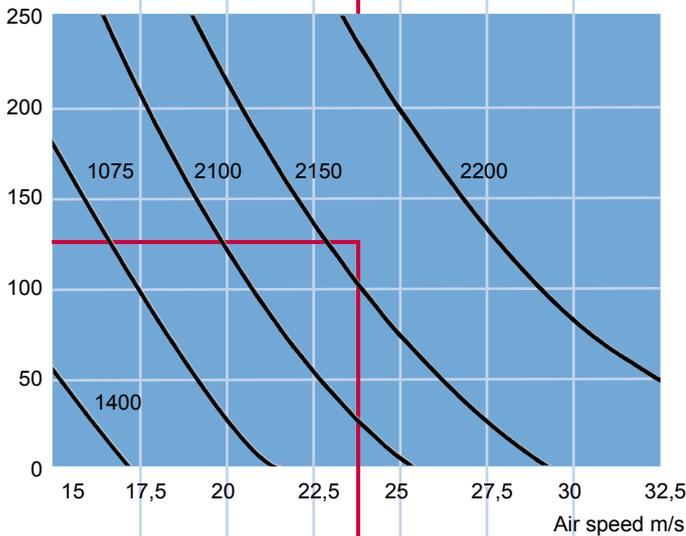
Dimensioning 2 x OK100 mm pick-up points

Conveying length m



Dimensioning 2 x 2 Ø80 mm pick-up points

Conveying length m



Paper trim 101 à 150 g/m² - Trim speed m/min



Paper film trim ≤ 120 µm - Trim speed m/min

2100 Multiair Type

Dimensioning a Multicutter System

The basis for system design is the trim speed. The trim speeds stated on the bars at the bottom require specific air speed for the conveying system. The required air speed for the conveying system is given in the diagrams. The diagrams are examples of 2 typical plant types.

The conveying length is also selected from the diagram. Plants represented by bends above the point where the air speed and conveying length values cross have sufficient capacity. Our calculations have included for 6 x 90° bends.

The data is a guideline value for paper trim of 101 - 150 g/m² and plastic trim of ≤ 120 µm. The blower output is based on standard conditions of 20° C and 760 mm Hg.

This is only one of many possibilities available with the Multicutter System.

Please do not hesitate to call us, if your specifications differ from the example.

Pipe diameter

Trim width, mm	25	35	45	60	95	120
Minimum pipe dimension, Ø mm	45	63	80	100	160	200

The necessary pipe diameter depends on the trim width. This is shown by the chart above.

Example: If paper trim produced at a speed of 470 m/min. are to be conveyed, an air speed of approx. 24 m/sec. is needed. For systems with 2 x 2 Ø 80 mm pick-up points and 125 m conveying length a Multiair 2200 must be used. For systems with 2 x OK100 mm pick-up points and similar conveying length a Multiair 2100 is sufficient.



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