

PNEUMATIC CONVEYING SOLUTION FOR **LABEL PROCESS WASTE** INCREASES PRODUCTIVITY, WHILE AT THE SAME TIME, SAVING SPACE AND ELIMINATING DUST AND NOISE PROBLEMS

/ THE CHALLENGE /

- This factory in the UK produces labels for bottles and jars in various sizes depending on their customer's needs
- The customer had a combination of three die-cutters and two guillotines and wanted to install a new guillotine
- Waste was being collected in large wheelie bins which significantly reduced floor space in an already busy production environment
- The customer wanted to reduce space in the production area to allow for the installation of the new guillotine and to minimize downtime by freeing up operators from emptying bins
- The amount and cost related to the disposal of the approx. 10 t waste every week was considered too high, and the solution should contribute to minimizing the costs. One primary consideration was the environmental impact on the outside discharge area. Housing was very close by so noise and dust pollution was a concern for the customer

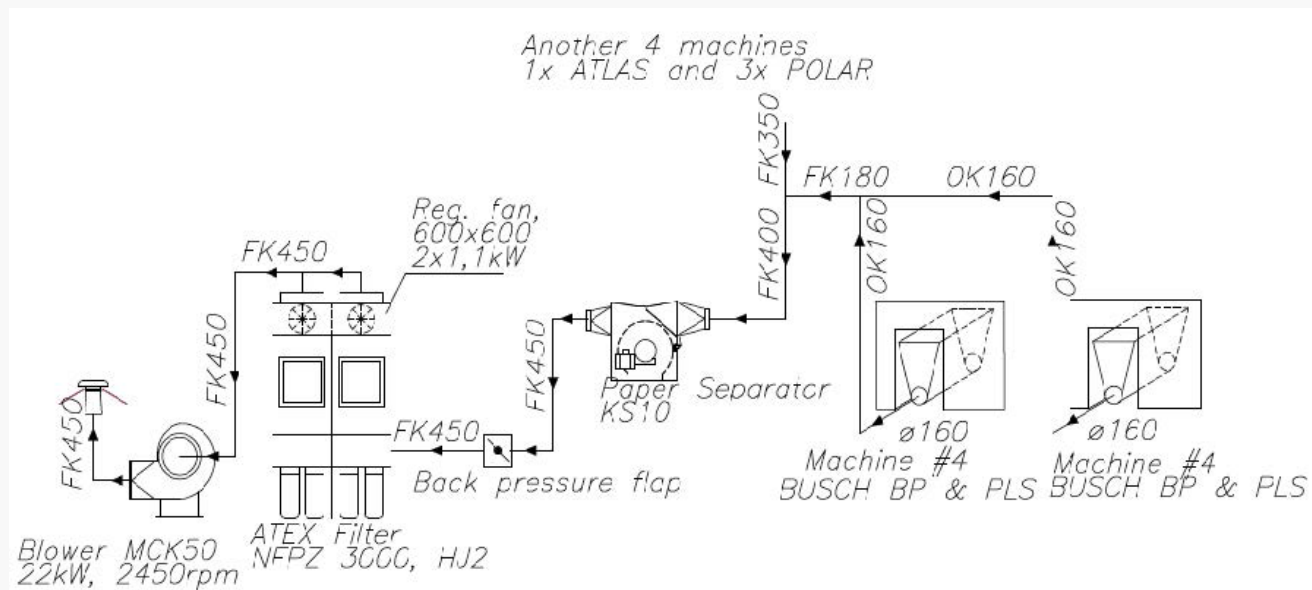
/ THE FACTS /

- Material: Paper labels (no glue)
- Thickness: 80 g/m²
- Number of machines: 6 pcs
(3 die-cutters/3 guillotines)
- Size die-cutter: 60 x 60 mm
- Size guillotine: 10 x 500 mm
- Rate die-cutter: 700 punches/hr. 1000 sheets per punch
- Rate guillotine: 300 cuts/hr. 1000 sheets per cut
- System specifications: Conveying distance: 72 m +
7 x 90° bends



// THE SOLUTION //

- The pneumatic solution implemented was a vacuum system using a rotary separator combined with an MCK50 blower and ATEX filter with a St1 ATEX approved back pressure flap to ensure maximum efficiency with the lowest possible impact on the in- and outside environment.



/ THE ADVANTAGES AND BENEFITS /

- The Kongskilde solution increased productivity as the customer don't have to stop the machines to empty the wheelie bins where the offcuts were collected
- The space created by removing the wheelie bins allowed for the installation of the new guillotine which has increased their productivity considerably
- Combining our waste system with a compactor helped reduced the size of the material allowing for fewer collections of RORO containers and dramatically reduced transport costs
- With the use of a filter, the Kongskilde solution was able to remove the issue of dust being exhausted from the system
- The acoustically enclosed blower and inline silencers ensured that the customer meets all their environmental concerns