

When waste handling affects the productivity a pneumatic solution can create better working environment and improve productivity

The challenge

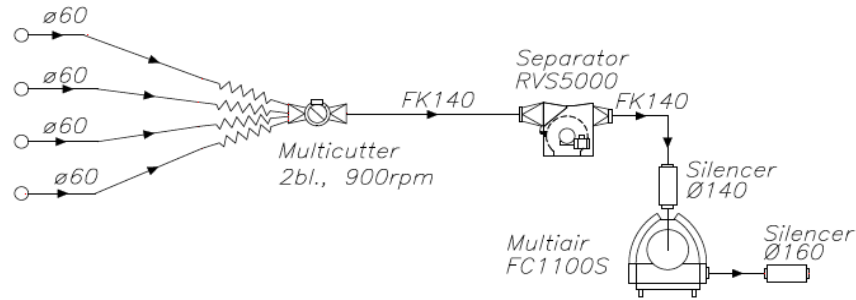
- The factory in Spain is part of a world wide company producing confectionary products
- The customer have 4 process machines producing endless trims of waste when packing lollypops. The trims were collected in small binds next to the machine and that created 3 main problems:
- The time and labor cost needed to handle and remove the waste were too high. The removal of waste required a forklift. This created a liability issue in the production area
- The look of the production environment with trim waste laying in waste containers was not representative whenever the customer received guests
- There was a negative impact on the productivity caused by the accumulated waste around each machine
- The company needed a waste solution that could keep the production area clean and increase production efficiency due minimal line stops

Facts

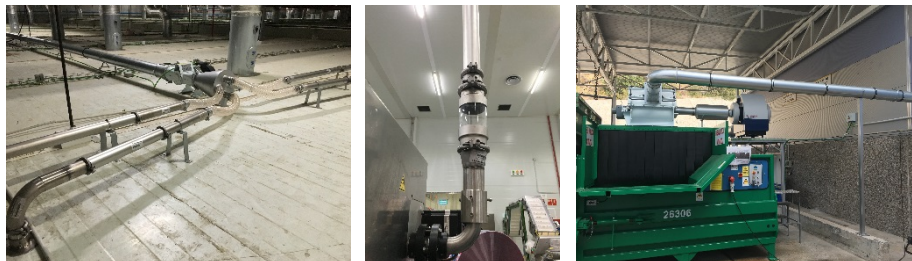
- Material: Silicon paper, endless trim
- Number of machines: 4 pcs
- Number of endless trims: 1 pcs per machine
- Max. trim width: 20 mm
- Max. trim speed: 225 m/min
- Material thickness: 30-100 g/m²
- System specifications: Conveying distance: 100m + 6 x 90°

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The solution



- The pneumatic solution implemented is the well-proven Kongskilde RVS5000 system combined with the new FC Multiair 1100S and one MultiCutter. The pipeline is the flexible OK160 system and the solution is easy to upgrade
- High flexibility and the modularity means easy setup of the pneumatic conveyor solution which can be accomplished in hours. The pipes mounted in the ceiling liberates space
- The solution generates a significant low extraction airflow for every machine



The advantages and benefits

- The Kongskilde solution increased productivity as the customer don't have to stop the machines to empty the waste bins where the endless trims were collected
- There is achieved an 1,5 hours reduction of down-time by automatic and continuous transfer of waste directly out of the production facilities to an outside container
- Reduction of labor-cost related to manual waste handling inside the production and adjacent areas by 25 %. The liability related to the forklift is no longer a concern
- More space around the machines improves productivity
- The factory environment is cleaner as waste is no longer collected in bins around the machines
- Due to the vertical piping design and use of stainless steel pipes the customer can now perform wet cleaning regularly inside and outside on our trim suction piping
- Pay-back time is expected to be less than 10 months