The challenge

Headquartered in the Hungarian town of Csávoly, leading snack processor Mogyi Kft. operates four production plants and eight subsidiary companies around Europe. It sells its seed and nut snacks, as a supermarket private label and under its own brands, into more than 25 countries.

A significant part of Mogyi’s achievements are a result of adhering to strict quality assurance systems, which have included the use of optical sorters for more than 20 years. But as quality specifications progressively become more complex and food safety levels more rigorous, Mogyi needed to invest in advanced technology that could identify and separate difficult-to-detect contaminants across a range of ingredients, including popcorn, sunflower and pumpkin seeds. It also needed the new equipment to be easily incorporated into its existing processing lines that could deliver outstanding efficiency and accuracy, while minimising loss of good product.

The solution

Mogyi incorporated its first Bühler SORTEX optical sorter into its sunflower seed cleaning line in 2013. This proved so successful that it installed another into its second sunflower seed cleaning plant. The following year Mogyi added a third sorter for popcorn and two SORTEX B ColorVision™ optical sorters to keep pace with growth in the popcorn and decorticated pumpkin seed demand.

Bühler tailored its technology to Mogyi’s requirements and initially ran tests at its London HQ to demonstrate the equipment’s efficiency and accuracy. The results exceeded all expectations, achieving a 99.8% accept quality, meaning Mogyi can now reach the homogenous popcorn and sunflower seed colour that is crucial to improved quality – and an improved yield and reduced waste.
Benefits

- Bühler technology is enabling Mogyi Kft. to consistently meet ever-increasing customer safety and quality standards
- Second-to-none product quality underpins Mogyi's own brand and sub-brand NPD including the recently launched Caramoon caramel coated popcorn, Gastropop savoury popcorn and flavoured sunflower seeds
- Difficult-to-detect contaminants have now disappeared from Mogyi's end product
- Bühler technology achieves a 99.8% accept quality
- Reliable Bühler technology ensures any machine down-time is kept to an absolute minimum

Feedback

"We only use equipment and suppliers that are able to meet our high standards and Bühler is an industry leader, consistently investing in research and development. When it ran samples for us on sunflower seeds, the results exceeded all our expectations. The product, now sorted on Bühler machines, is not only cleaner, but also has an improved yield and reduced waste."

Krisztian Weidinger, Procurement Manager for Modyi Kft

Technology highlight

- The SORTEX B ColorVision™ is dependable and delivers a consistent performance for mainstream sorting through a superior feed system, vision systems and processing capabilities
- The high-capacity and flexible Bühler technology is designed to sort a range of applications including nuts, seeds, grains, coffee, pulses and plastic application with speed, efficiency and reliability - increasing profitability by minimising the loss of good product
- The SORTEX B ColorVision™ uses two visible wavelengths, allowing detection of not only light and dark defects, but other colour variations to aid foreign material removal