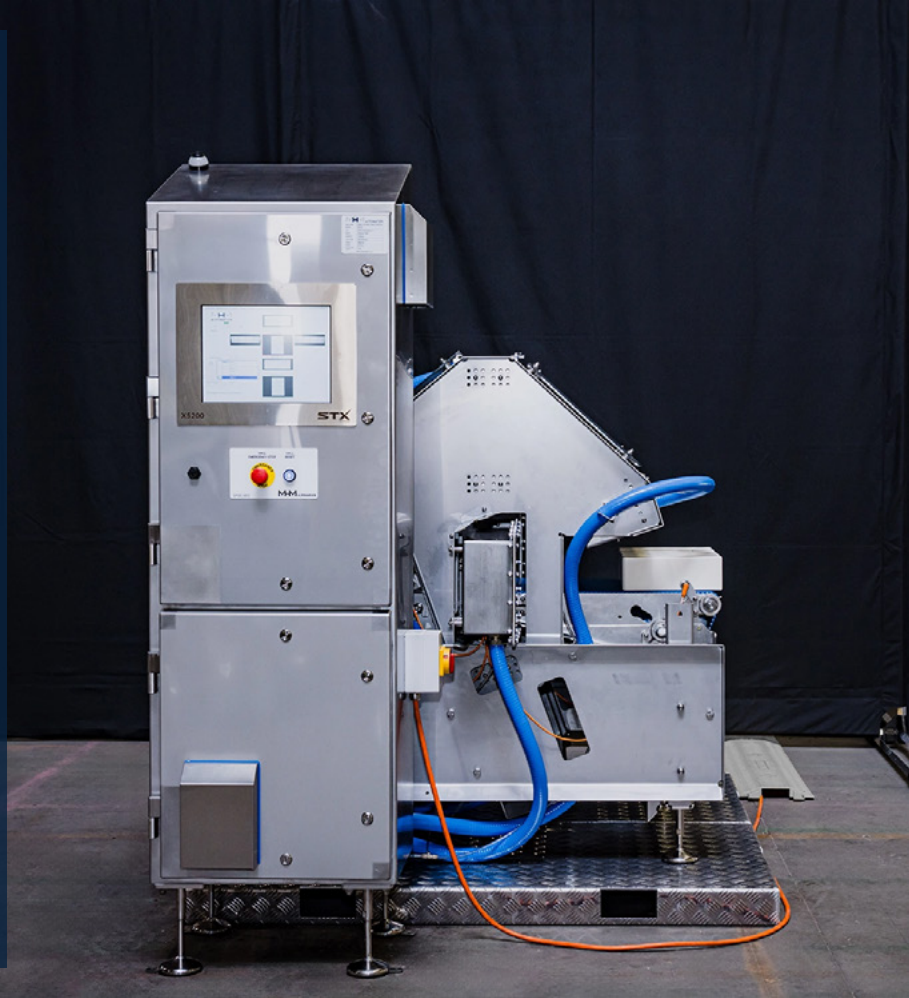


DEFECT AND FOREIGN OBJECT DETECTION

DFOD



Need to scan naked cheese blocks for mould and foreign material contamination in a high hygiene area?

The Defect and Foreign Object Detection (DFOD) unit provides a quality control point for cheese blocks entering a processing plant, prior to further processing.

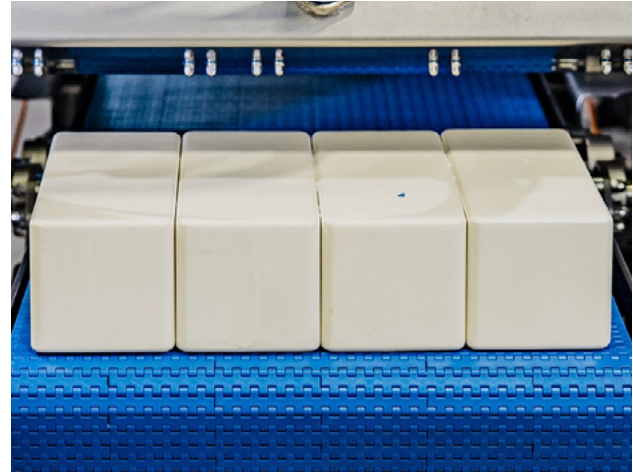
Suitable for both bagged and unbagged product, the DFOD detects foreign objects that are 10mm (0.39") in diameter or larger, and visually distinct from the cheese.

For bagged cheese, detection is most effective when the mould sits beneath a single layer of clear plastic. Image quality and, therefore, detection accuracy can be reduced where multiple layers of plastic are present, such as in areas with gussets, folds, or seams over the cheese or mould.

BENEFITS

- > Provides a quality control point prior to slicing or shredding
- > Efficient and reliable machinery with meticulous detection
- > Full washdown capability makes it suitable for high hygiene areas
- > Automating the cheese inspection process means reduced labour – allowing staff to be re-deployed to higher value work
- > High tolerance to dimensional variations of product

USER INTERFACE



^ Examples showing the user interface when scanning a block and identifying plastic on a block.

FEATURES

Throughput rate of 12 per minute

Inspects all 6 sides of the block

Simple product setup with minimal training, with simultaneous ongoing training and inspection

Best-in-class deep learning anomaly detection with advanced cameras and lighting

User-friendly, easy-to-use HMI for operators, supervisors, and technical setup

IP69K-rated motors, gearboxes, and field devices

Hygiene design for easy cleaning

Compact size for easy integration into new or existing lines

Customisable to inspect different block sizes

TECHNICAL SPECIFICATIONS

Block Format	20kg (40lb) block sizes
Rate	Up to 12 blocks per minute
Min block size	L x W x H 360mm x 280mm x 160mm 14" x 11" x 6.3"
Max block size	L x W x H 400mm x 320mm x 200mm 15.75" x 12.6" x 8"
Footprint (excluding control cabinet)	L x W x H 1.4m x 1.65m x 1.9m 55" x 65" x 75"
Operator interface	Touch screen
Minimum colour defect detection	Down to Ø10mm (Ø0.39")