

Ensuring Consumer Safety and Brand Protection



Food safety standards are given priority importance by Tong Garden to ensure that their nut snack products are manufactured to the highest quality and are free of contaminants that could harm consumers. If physical contaminants are found by the consumers, the damage to the brand and adverse effects will be inevitable.

Focused on Consumer Safety

In order to prevent any harm to consumers as well as to protect the company's brand, Tong Garden has seriously focused on quality in the manufacturing process through Critical Control Point (CCP) analysis and prevention measurements. To ensure that the highest quality products will be delivered to consumers, the company has focused on contamination detection. It must be apparent to consumers that Tong Garden products are of the highest quality and they are never the source of consumer complaints regarding harmful contaminants.



Tong Garden manufactures a variety of nut snacks

Tong Garden

Inspection of nut snacks



Dual lane x-ray machine can inspect contaminants in products feeding from 2 packaging lines

Various Products in Various Packaging Types

Tong Garden manufactures a variety of products packaged in various formats, such as peanuts, broad beans, and cashew nuts as well as different packaging sizes such as 20, 40, 200, and 500 grams.

They needed to be able to detect contaminants in products packaged in aluminum foil, as well as needed a solution to speed up the production process and to provide ease and flexibility in changing product types. The product inspection machine, therefore, must be able to accomplish these challenges.

Tong Garden decided to invest in an X35 x-ray inspection system from METTLER TOLEDO. Ms. Kanchana Arsiravichai, Managing Director of Tong Garden Co, Ltd., commented, "The X35 was a significant capital investment compared to the value of the products, which are low margin, so it was important we knew

it could do the right job. The X35 x-ray machines can also detect other contaminants in addition to scraps of metal, such as fragments of glass, stones, bone and some forms of plastic."

The Perfect Solution

A single X35 x-ray machine for multi-lane inspection was an ideal solution. Products from two packaging lines can be conveyed through the single x-ray machine simultaneously by being separated into two inspection lanes. The machine can also inspect and separate out contaminated products from the production line with a series of drop down conveyor belts. The contaminated products then fall into the reject bin below the inspection line. This process has been designed with safety systems allowing only authorized personnel such as Quality Assurance (QA) to be able to handle rejected products and conduct a more detailed examination.

In addition, a special software system provides added flexibility. The operators can easily choose to inspect either a single lane or multi-lanes. This makes it possible to use a single X35 x-ray machine to monitor products in small bags (such as 20 grams or 50 grams) by selecting the multi-lane mode (with both lines entering the single x-ray machine), or to inspect products in larger bags such as 500 grams by operating as a single lane mode.

Ms. Kanchana Arsiravichai commented, "Although product quality is the most important issue, the production efficiency is also essential. Therefore, the X35 x-ray machine with multi-lane inspection can accomplish our challenges for both quality and efficiency."

Finally, Ms. Kanchana also remarked that, "After-sales service is a very important focus. Since Tong Garden installed its first x-ray machine, the factory has maintained service contracts and received servicing, machine maintenance, training, and assistance with resolving problems, thereby allowing the plant to operate efficiently and providing value for our investment."

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