TOMRA | FOOD

PETFOOD

SAFE PREMIUM PETFOOD, CONSISTENT QUALITY

TOMRA's in-line petfood sorting solutions enhance the quality of your product. They significantly reduce claims and product recalls in a highly competitive industry. TOMRA's advanced sorting solutions bring brand protection to the petfood industry and will be a cornerstone in driving brand loyalty.

SORTING IS VITAL

Your reputation is on the line and just one mistake can damage it forever. No matter what part of the petfood industry you're in, sorting is vital. As trusted suppliers, TOMRA knows the challenges that processors face.

And that's why we provide you with the best and most comprehensive sensor-based sorting solutions available. These not only secure your reputation but also showcase your power to innovate and change the petfood processing future.

Applications:
Ground frozen meat, meat and bone meal, kibbles, biscuit residue, treats
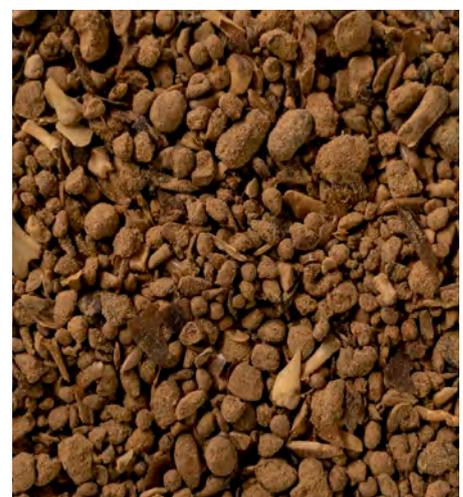
HIGH-QUALITY PETFOOD BECAUSE WE CARE FOR YOUR PETS.

FROZEN MEAT FOR WET PETFOOD

BENEFITS

ENHANCE YOUR PRODUCT QUALITY

Your customers and their pets hold a zero-tolerance policy when it comes to foreign material in wet petfood. Rubber, plastics, wood and even glass, does not belong in premium petfood. TOMRA's in-line optical sorters ensure a safe and high quality end product.

REDUCE CUSTOMER COMPLAINTS & PRODUCT RECALLS

The most serious customer complaints and product recalls come from the presence of foreign material in wet petfood. The amount of employee time, administration and investigation involved in a complaint or recall directly affect your bottom line. Thanks to TOMRA's sophisticated optical sensors, no foreign material passes undetected.

PROTECT YOUR BRAND & INCREASE BRAND LOYALTY

Removing undesired material from your wet petfood protects your brand in a highly competitive petfood market. This will increase customer satisfaction and brand loyalty. Investing in TOMRA's optical sorters showcases your power to innovate and change the future of the petfood industry.

TECHNOLOGY

NIMBUS

TOMRA's Nimbus optical sorter operates with a free-fall principle. This gives the sorter a small footprint and allows to create a double-sided inspection of the product whilst it is in free fall. This in-line sorter can handle high capacity and requires little maintenance. The Nimbus is very robust and can deal with harsh wet and cold environments.

LASER

TOMRA's Nimbus optical sorter uses its double-sided lasers to sort based on color, structure, and biological characteristics. Laser scanning detects contaminants even when the product and the defects have the same color. In addition, the Advanced Foreign Material Detector (AFMD) module sorts on product specific features, like the moisture level. The sorter is calibration-free, which is the ultimate proof of stability.

USER INTERFACE

The equipment from TOMRA is extremely user friendly. No engineer is needed to alter the computer programs. Therefore, quality-minded people, even without technical background, but with a good product knowledge, can adjust the settings easily. Our self-learning Smart Sort software further increases user friendliness. In combination with a PAX remote connection, TOMRA's technical support is always by your side.
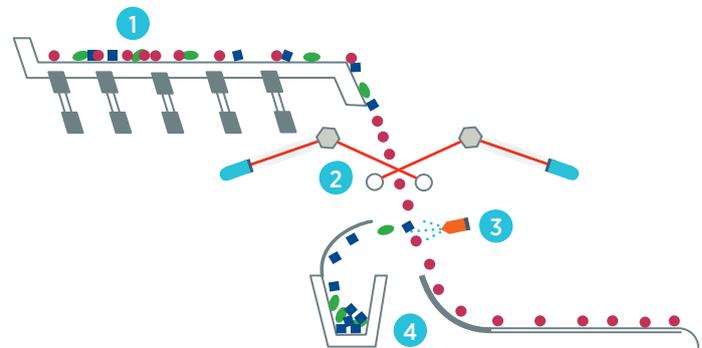
1	Infeed conveyer (unsorted)	**3**	Precise air guns
2	Lasers	**4**	Accept/ reject

WORKING PRINCIPLE

A feed shaker uniformly spreads the ground frozen meat over the free-fall chute. The product falls down towards the inspection zone, where it is scanned by lasers. A few milliseconds later the defects are hit with a precise powerful burst of air sending them into the rejection zone while the good product continues its natural free-fall.

DRY PETFOOD KIBBLES

BENEFITS

REDUCE COMPLAINTS & RECALLS

Not only foreign material is a cause for customer complaints or expensive product recalls in dry petfood. Cross contamination occurs even more frequently and can, in specific cases, have a life-threatening impact on a pet's health. Thanks to TOMRA's sophisticated BSI+ sensor, both foreign material and cross contamination will have less chance to make it into your final product.

REDUCE REWORK & INCREASE UPTIME

Cross contamination of petfood kibbles frequently occurs due to the storage in silos prior packaging. Intensive cleaning between different runs or discarding the first couple of kilograms of product are labor intensive or lead to significant product loss. TOMRA's optical sorters automate the removal of cross contamination and do this whilst ensuring an optimized yield.

PROTECT YOUR BRAND & INCREASE BRAND LOYALTY

Removing undesired material from your dry petfood protects your brand in a highly competitive petfood market. This will increase customer satisfaction and brand loyalty. Investing in TOMRA's optical sorters showcases your power to innovate and change the future of the petfood industry.

TECHNOLOGY

NIMBUS

TOMRA's Nimbus optical sorter operates with a free-fall principle. This gives the sorter a small footprint and allows to create a double-sided inspection of the product whilst it is in free fall. This in-line sorter can handle high capacity required prior packaging. The Nimbus is very robust and can deal with harsh dusty environments.

LASER

TOMRA's Nimbus optical sorter uses its double-sided lasers to sort based on color, structure, and biological characteristics. Laser scanning detects foreign material even when the kibbles and the defects have the same color. The sorter is calibration-free, which is the ultimate proof of stability.

BSI+

Developed in-house, the unique BSI+ (Biometric Signature Identification) technology works by detecting the biometric characteristics of objects it scans and compares them to features in its stored database, to determine whether they should be accepted or rejected. This state-of-art optical sensor can even detect cross contamination with the same shape, size or colour as the good product when the composition of the kibble is different from the good product.
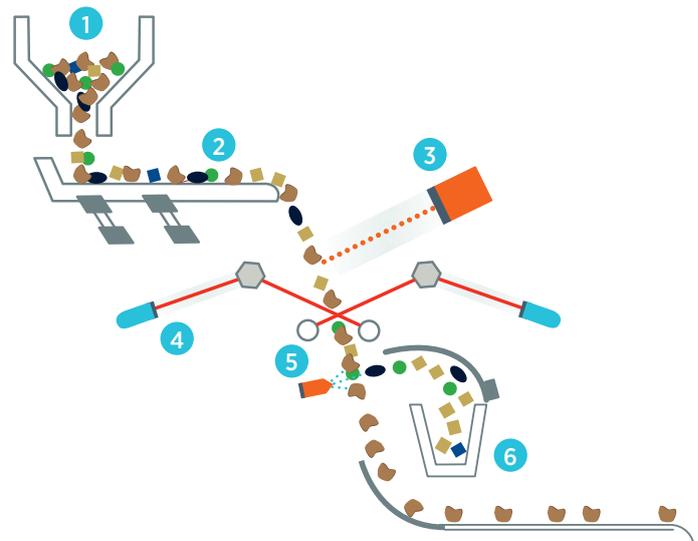
1	Hopper	4	Lasers
2	Infeed conveyer (unsorted)	5	Precise air guns
3	BSI+	6	Accept / reject

WORKING PRINCIPLE

A feed hopper uniformly spreads the dry petfood kibbles over the free-fall chute. The product falls down towards the inspection zone, where it is scanned by a front BSI+ and double-sided lasers. A few milliseconds later the defects are hit with a precise powerful burst of air sending them into the rejection zone while the good product continues its natural free-fall.

DRY MEAT & BONE MEAL FOR DRY PETFOOD

BENEFITS

ENHANCE YOUR PRODUCT QUALITY

As a meat and bone meal processor, you typically deal with a high incoming defect load in your raw materials. The premiumization and humanization trend in the petfood industry drive your dry petfood customers to demand the highest quality product. Pieces of plucker fingers, rubber bands, wood, stones... are not acceptable. Embracing TOMRA's sorting technology ensures a safe and high quality product and gives you a competitive advantage.

INFLUENCE ASH CONTENT & SHIFT YOUR PROTEIN

Besides the common foreign material, bones can also be targeted as a defect. By doing so, you can influence the ash content of your final product to a certain extent. Increasing the protein level may lead to a higher quality product and can assist you in offering more differentiation to your customers.

INCREASE BRAND LOYALTY & GAIN MARKET SHARE

Removing undesired material from your meat and bone meal protects your brand in a highly competitive petfood supplier market. Investing in TOMRA's optical sorters showcases your will to tackle an industry problem like foreign material. Processors that implement sorting technology will increase their market share.

TECHNOLOGY

NIMBUS

TOMRA's Nimbus optical sorter operates with a free-fall principle. This gives the sorter a small footprint and allows to create a double-sided inspection of the product whilst it is in free fall. The Nimbus is very robust and can deal with harsh dusty environments. The sorter requires little maintenance.

LASER

TOMRA's Nimbus optical sorter uses its laser to sort based on color and structure. Laser scanning detects contaminants even when the product and the defects have the same color. The sorter is calibration-free, which is the ultimate proof of stability. The nitrogen overpressure prevents any fine dust from entering the sealed optical box.

BSI+

Developed in-house, the unique BSI+ (Biometric Signature Identification) technology works by detecting the biometric characteristics of objects it scans and compares them to features in its stored database, to determine whether they should be accepted or rejected. In addition to foreign material, this state-of-art optical sensor can also distinguish bones from the good product.
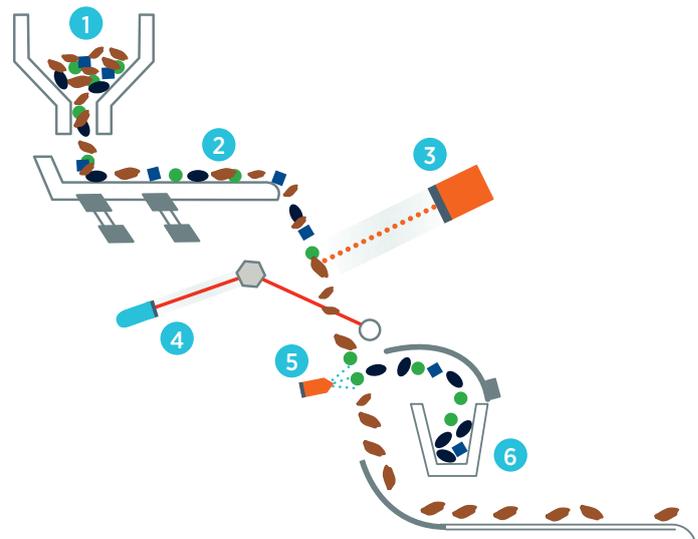
1	Hopper	4	Laser
2	Infeed conveyer (unsorted)	5	Precise air guns
3	BSI+	6	Accept / reject

WORKING PRINCIPLE

A feed hopper uniformly spreads the dry meat and bone meal over the free-fall chute. The product falls down towards the inspection zone, where it is scanned by a front BSI+ and a rear laser. A few milliseconds later the defects are hit with a precise powerful burst of air sending them into the rejection zone while the good product continues its natural free-fall.

You are a Resource Revolutionary.

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TOMRA Food is the leading provider of sensor based sorting, peeling and processing technology for the fresh and processed food industries.

Turning yield into usage, profits into progress, TOMRA transforms the way the world obtains, uses, and reuses its resources.

If you are interested in a free demonstration with your own product or if you need more information, please contact us directly.

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