

Product Inspection



Product Inspection Solutions

Achieve Compliance

Maximize Productivity

Reduce Quality Costs

Solutions to Industry Challenges For Packaged Food Processors

METTLER **TOLEDO**

Quality and Efficiency

Protecting Your Business

Increased competition, complex regulatory requirements and cost pressures are key challenges for packaged food manufacturers. Market requirements for a wider product offering and evolution of packaging formats add additional demands.

METTLER TOLEDO's solutions are designed to make it easier to detect smaller contaminants, reduce product waste, uphold product integrity, minimize false rejects, maximize uptime and meet compliance needs.

How product inspection solutions can help you:

Achieve Compliance



The regulatory landscape is constantly evolving.

Product inspection technology makes it easier to meet current requirements and provide cost effective solutions that can adapt to future needs.

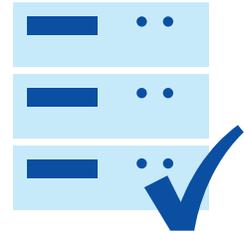
Maximize Productivity



Improving operational efficiency is essential to maintain competitiveness.

Our technology can help to maximize effectiveness and accommodate increasing production capacity.

Reduce Quality Costs



The cost of quality management including regulatory compliance is significant.

Automated in-line product inspection processes make affordable quality assurance a reality.

METTLER TOLEDO Product Inspection solutions make packaged food processing easier

Partnering with METTLER TOLEDO

METTLER TOLEDO offers an industry-leading portfolio of precision instruments and services for multiple applications in research and development, quality control, production, logistics and retail.

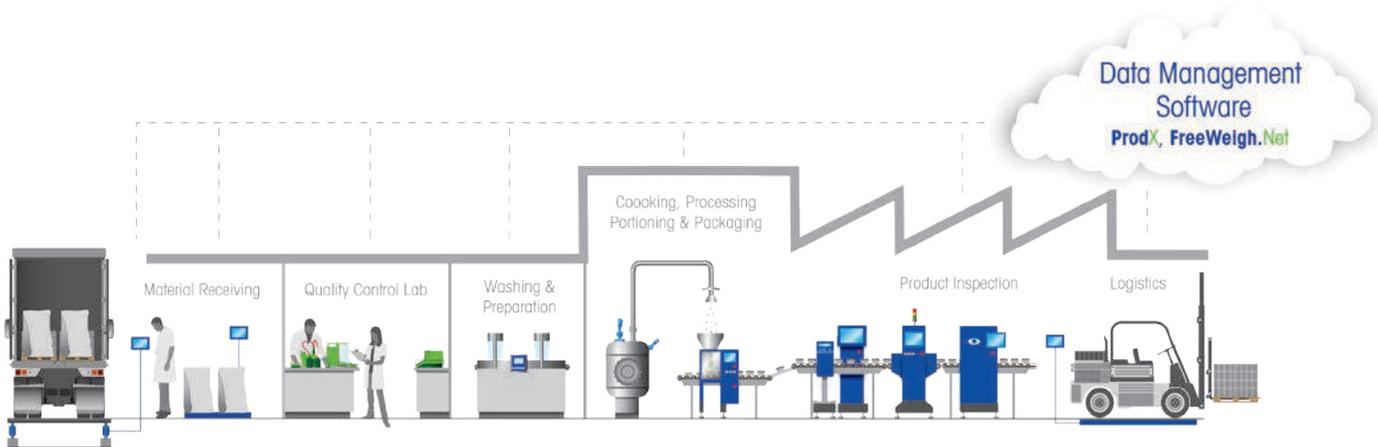
METTLER TOLEDO has decades of experience in product inspection solutions that are at the core of food manufacturing.

- Our **integrated systems** are located throughout food processing and production lines, from the inspection of raw materials and pre-filled packaging components to the checking, marking and verification processes of end products
- Our **software solutions** support the efficient management of data, process automation and data integrity. This helps in meeting regulatory requirements and improving production efficiency
- **METTLER TOLEDO Service** offers local support to help you get the best value from your product inspection equipment throughout its life

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Product Inspection Solutions in Action

Regardless of the nature and format of your packaged product, we have designed a product inspection solution to meet your needs.



Front-end inspection enables early contamination detection before further value is added to the product, protecting bottom-line profits. This also protects equipment located downstream from any potential damage due to large foreign bodies such as mineral stones.

In-process inspection minimizes product waste caused by the overfilling of packaged foods, and enables the reworking of rejected product - protecting profits. Processing issues can be identified and rectified to optimize production line efficiencies.

End of line inspection delivers assurance that the packaged product, when leaving the facility, is contaminant-free and adheres to brand integrity requirements. This helps to avoid product recalls and secure repeat business from satisfied customers.



Compliance Made Easier With Integrated Solutions

In a competitive industry governed by strict standards, regulations, and legislation, the stakes for manufacturers are high. Inspection devices sit at the heart of any well-designed production process, but a truly effective program encompasses much more. Correct installation, well-trained operators, and streamlined data management are essential elements of an effective inspection program.

Reduced Risk of Biological Contamination



The risk of biological contamination in facilities that process animal proteins can be reduced by using equipment designed to support demanding hygiene procedures.

METTLER TOLEDO equipment features open-frame designs for easy cleaning and sealing up to IP69 standard. System components can be dismantled, cleaned and re-assembled to allow for thorough cleaning.

Satisfying Regulatory Requirements



Globalization of food trade networks has driven the need for International food safety standards such as the Global Red Meat Standard (GRMS). Retailer codes of practice, local legislation, and trade associations such as the North American Meat Institute (NAMI) add further complexity.

With decades of experience creating application-specific solutions and supported by a global service network, METTLER TOLEDO can address your compliance needs.

Software to Make Compliance Easier



To support quality procedures and assist production departments, METTLER TOLEDO has developed innovative data management software.

ProdX delivers an automated, reliable and comprehensive solution to electronic record keeping and device monitoring.

FreeWeigh.Net provides central data capture and evaluation capabilities for quality data management.



How Product Inspection Solutions Can Help with Compliance

METTLER TOLEDO has designed the largest portfolio of product inspection systems on the market. We invest in creating flexible inspection solutions to ensure that food production lines are future proofed to stay ahead of evolving compliance needs. New products can be easily programmed for inspection. This ensures full protection of packaged products, from contaminant detection, fill level inspections, closure integrity checks and precision weighing to labeling accuracy.



Metal Detection



X-ray Inspection



Checkweighers



Vision Inspection



Combination Systems

Achieve Compliance

Hygienic Design follows European Hygienic Engineering and Design Group (EHEDG) guidelines

Due Diligence System Enhancements for Compliance

Global Service Support

Innovative Software Solutions

Compliance with Weight Regulations

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Increasing Process Efficiency For New and Existing Lines

Integrating innovative product inspection technologies can increase your productivity. Automating product and packaging integrity checks on your production lines can improve efficiency.

Advanced inspection technologies perform several quality assurance checks simultaneously at high throughput speeds. Flexible pre-programmable systems streamline product inspection procedures across multiple product lines, thereby reducing production time and cost.

By rejecting sub-standard products early in the production process, manufacturers have the possibility to rework the food before additional value is added. Innovative product inspection systems also decrease the number of false rejects which both reduces the amount of product waste and the operational time to investigate the cause.

Automation of Quality Control Processes



Manually checking for missing products, damaged packaging, or under- and overweight products is a time-consuming process.

Quality checks are automated using metal detection, x-ray inspection, checkweighing or vision inspection technologies to enhance production line efficiency.

Efficient Product Changeovers



A key element of maximizing line performance is having the ability to manufacture at high speeds with minimal disruption.

Our product inspection solutions are designed to minimize downtime by streamlining, speeding up or eliminating set-up times between production batches.

Increased Uptime



Easy line-integration, set-up and product changeovers all increase production uptime.

Our systems are specifically designed to facilitate easy testing and service and maintenance procedures with minimal downtime.



What our customers say:

"As we grow, we put more product out there for the public to consume, which increases our risk along with our volume. Our METTLER TOLEDO x-ray inspection system is another step toward ensuring food safety. It gives us confidence and it gives our retail customers assurance that we are maintaining the highest product quality. At Zinetti Foods, we go above and beyond making great tasting foods that people enjoy. We make sure our food is safe, so they keep coming back for more."

Source: Ash Engele, Maintenance Manager at Zinetti Foods

Maximize Productivity

Overcome Product Effect

Automate Quality Control Processes

Efficient Product Changeovers

Reduced False Rejects

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Consistent Quality

To Appeal to Your Customers

It is crucial to check for contaminants within the product and ensure completeness of the final package; the challenge is to achieve this in a cost-effective manner. Inspection before, during, and after packaging is the ideal solution. The core technologies offered by METTLER TOLEDO ensure the highest quality products for your customers.

To consistently achieve conformity, manufacturers need to ensure that each packaged product completes several integrity checks.

Foreign Body Detection and Rejection



Foreign bodies may be present in raw materials. Production processes such as the use of cutting blades or manufacturing equipment can also be a source of contamination.

Metal detection and x-ray inspection systems find and remove foreign body contaminants to ensure the highest quality.

Package Integrity Inspection



Packaging errors increase costs and can damage a manufacturer's reputation.

Our advanced checkweighing, x-ray and vision inspection technologies perform package integrity checks to identify quality issues and ensure any non-compliant products are removed from the line before they reach the supply chain.

Minimize Overfill to Reduce Waste



Overfilling results in unnecessary product giveaway while under-filling leads to non-compliance with weighing standards - and both can lead to increased costs for manufacturers.

Using a dynamic checkweighing system ensures each individual product is inspected to guard against under- or over-weight and comply with Weights and Measures legislation.



Label Accuracy



Product labels must clearly display all required information including lot numbers, expiration dates, allergen declarations and storage conditions.

The use of vision inspection technology avoids recalls due to incorrect labeling or label mix-up by confirming that the correct labels have been applied according to the pre-programmed specifications.

Reduce Quality Costs

Foreign Body Detection at Critical Control Points

Product & Package Integrity Checks

Dynamic Checkweighing

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Supporting You In Product Inspection Projects

METTLER TOLEDO offers a unique approach to project management. This ensures our equipment and software are designed, manufactured, installed and commissioned correctly. Our after-sales support helps you to maximize the return on your investment.

We offer comprehensive support to help you optimize performance. This includes detailed gathering of information and product testing to fully understand your needs through complete analysis of regulatory compliance requirements such as GFSI-based standards, major Retailer Codes of Practice and local regulations.

Design Expertise and Equipment Safety



Detailed consultation with you during the design phase will capture key factors such as operator safety and system integration.

Hardware/software functional design specifications are fully documented at the critical design qualification stage.

Equipment Qualification



Projects are further supported and documented in our IPac Qualification and Verification packages.

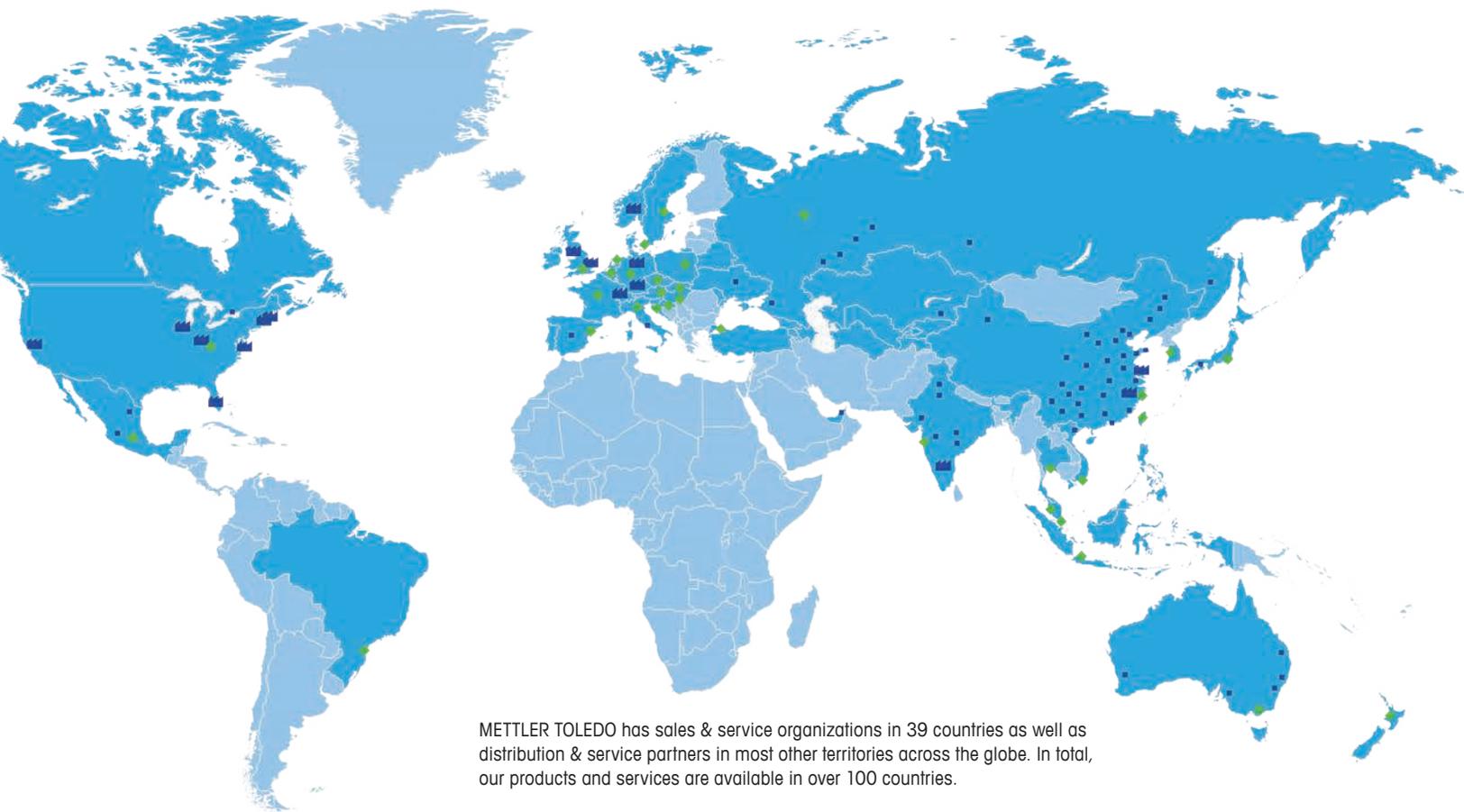
We provide extensive documentation for installation, commissioning and verification to ensure internal and external audit requirements are met.

Start-up Support



Start-up support is provided from commissioning services through initial operator training. This ensures your product inspection equipment performs as expected and helps you to meet your compliance obligations.

This approach ensures all regulatory requirements are met and your equipment can perform effectively from day one.



METTLER TOLEDO has sales & service organizations in 39 countries as well as distribution & service partners in most other territories across the globe. In total, our products and services are available in over 100 countries.

Global Support Through a Local Expert Team

With a local presence in most industrialized countries, as well as selected partners in other regions, we are ready to serve you around the globe. Our geographically focused teams and partners are responsible for all aspects of sales, service and support. 7200 factory-trained service and sales specialists worldwide support you.

Our approach to service is underpinned through four key pillars of support:



Uptime

Dealing with day-to-day operational needs means optimizing every minute of uptime.



Performance

Moving further up the service experience, we focus on performance and continuous productivity improvement.



Compliance

Total compliance is a prerequisite. As new markets open, you need to be compliant in order to not miss any opportunities.



Expertise

Your expertise contributes to uptime, performance and compliance. Well-trained operators are a key to success.

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Four Inspection Technologies

One Solutions Partner



Checkweighing

Standard and highly customized checkweigher systems are built to suit your specific applications and environment, as well as your regulatory and industry requirements.



Metal Detection

Metal detection solutions to ensure maximum detection sensitivity with minimum false rejects when inspecting meat and poultry products on conveyors, in pipelines, or via free-fall systems.



X-ray Inspection

X-ray Inspection machines offer safety and quality assurance at every stage of the production process for unpacked and packaged products.



Vision Inspection

Vision Inspection solutions are easily integrated into existing production lines, examining containers, closures, labels and coding to help manufacturers achieve the highest levels of accuracy, safety and compliance every time.

Looking For More Information?

Browse our library and discover valuable resources on best practices, safety, compliance, global certification, research, product inspection applications and much more.

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For more information

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