

Product Inspection



Product Inspection Solutions

Achieve Compliance

Maximize Productivity

Reduce Quality Costs

Solutions to Industry Challenges For Meat and Poultry Processors

METTLER **TOLEDO**

Quality and Efficiency

Protecting Your Business

Cost pressure and short shelf life combined with complex regulatory requirements impact meat and poultry manufacturers. Packaging trends and market requirements for wider product variety add additional pressure. METTLER TOLEDO's solutions are designed to make it easier to detect smaller contaminants, reduce product waste, minimize false rejects, maximize uptime and meet compliance needs.

How product inspection solutions can help you:

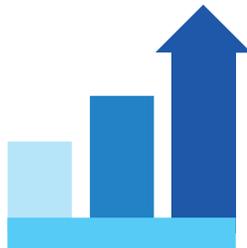
Achieve Compliance



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.

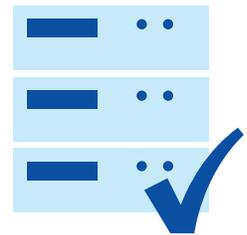
Maximize Productivity



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 meat and poultry 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.

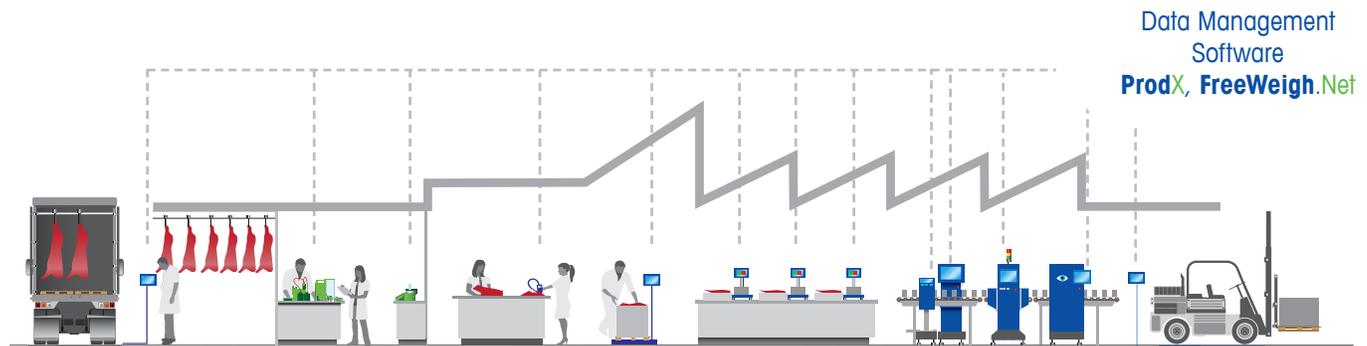
METTLER TOLEDO has decades of experience in product inspection solutions that are at the core of meat and poultry processing.

- Our **integrated systems** can be found everywhere from the inspection of raw materials right through 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

Whatever your product format and material handling method at the designated critical control point - loose or bulk, pumped, fresh, frozen, or packaged - we have a product inspection solution to meet your needs.



Front-end inspection enables early detection of contaminants before value is added, and protects downstream equipment.

In-process inspection minimizes product waste or unnecessary giveaway and enables potential re-work before further value is added to reduce costs.

End of line inspection delivers peace of mind that there is no further risk of foreign body contamination as a result of production processes, and ensures only perfect product leaves the facility.



Metal Detection



X-ray Inspection



Checkweighers



Vision Inspection

Pipeline Solutions



Combination Systems



Contamination
Detection

Product and
Package
Integrity Checks

Completeness
Checks

Under- /
Over-fill

Label
Accuracy

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 support 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, supported by a global service network, we 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.



What our customers say:

"As the UK's market leading producer of black puddings in clipped sleeve and traditional, natural skin formats, we are very keen to ensure the product we send out is of the highest possible quality. METTLER TOLEDO Safeline metal detectors help us protect our brand, increase our productivity and maintain high quality standards which are essential for keeping our BRC "A Star" standard."

Source: Bury Black Pudding, UK



Profile Advantage metal detection systems can be supplied with due diligence enhancements including a range of failsafe features for maximum compliance.

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

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Increasing Process Efficiency For New and Existing Lines

Uptime is essential to maximize productivity levels. By virtually eliminating false rejects labor efficiency can be improved and costs reduced. Using the right automated product inspection equipment increases uptime and improves OEE.

Overcoming Product Effect



Wet products such as meat and poultry can be challenging for traditional metal detection technology.

Our patented Profile Advantage system overcomes “product effect” to detect smaller irregular shaped contaminants, delivering enhanced brand protection. By virtually eliminating false rejects, operator efficiency is improved.

Automation of Quality Control Processes



Manually checking for missing products, damaged packaging, or under- and over-weight products can be a time consuming process.

Quality checks can be automated using X-ray inspection, checkweighing, or vision inspection technology 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.



What our customers say:

"Compared to the previous product inspection technology we employed, we can now detect foreign body contaminants that are half the size.

We used to have to manually check each burger patty for cracks or holes prior to packaging. With the X39 X-ray inspection system, we now have the capability to automate this process. Every product is checked for defects prior to packaging without any manual intervention. Rejected products are separated, based on the reason for rejection – metal contamination, bones or cartilage, and product defects including loose flakes or missing chunks – which makes investigation of rejected products easier."

Source: Bell Food Group, Switzerland



X39 X-ray Inspection system

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 art is to achieve this in a cost effective manner. Inspection before, during and after packaging is the only solution. The core technologies offered by METTLER TOLEDO ensure the highest quality products for your customers.

Foreign Body Detection and Rejection



Foreign bodies may be present in raw materials, for example broken needles in pork. Production processes such as the use of cutting blades, or manufacturing equipment can also be a source of potential 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 technology perform product and package integrity checks to identify quality issues and ensure non-compliant elements are removed before they reach the supply chain.

Minimize Overfill to Reduce Waste



Overfilling results in unnecessary product giveaway and leads to increased costs.

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



What our customers say:

"Our sausage and meat products are subjected to a very stringent quality management process. To ensure the consumer is convinced of our consistently high quality, we need our product packaging to be flawless. As well as checking the integrity of the packaging, we also check the layout of the printed barcode and the use-by date. The V2640 can detect whether or not a barcode is present and whether it has been positioned correctly, and can also check the accuracy of its coding."

Source: Herta, Germany



V2640 Vision Inspection system

Reduce Quality Costs

Foreign Body Detection at Critical Control Points

Product & Package Integrity Checks

Dynamic Checkweighing



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.

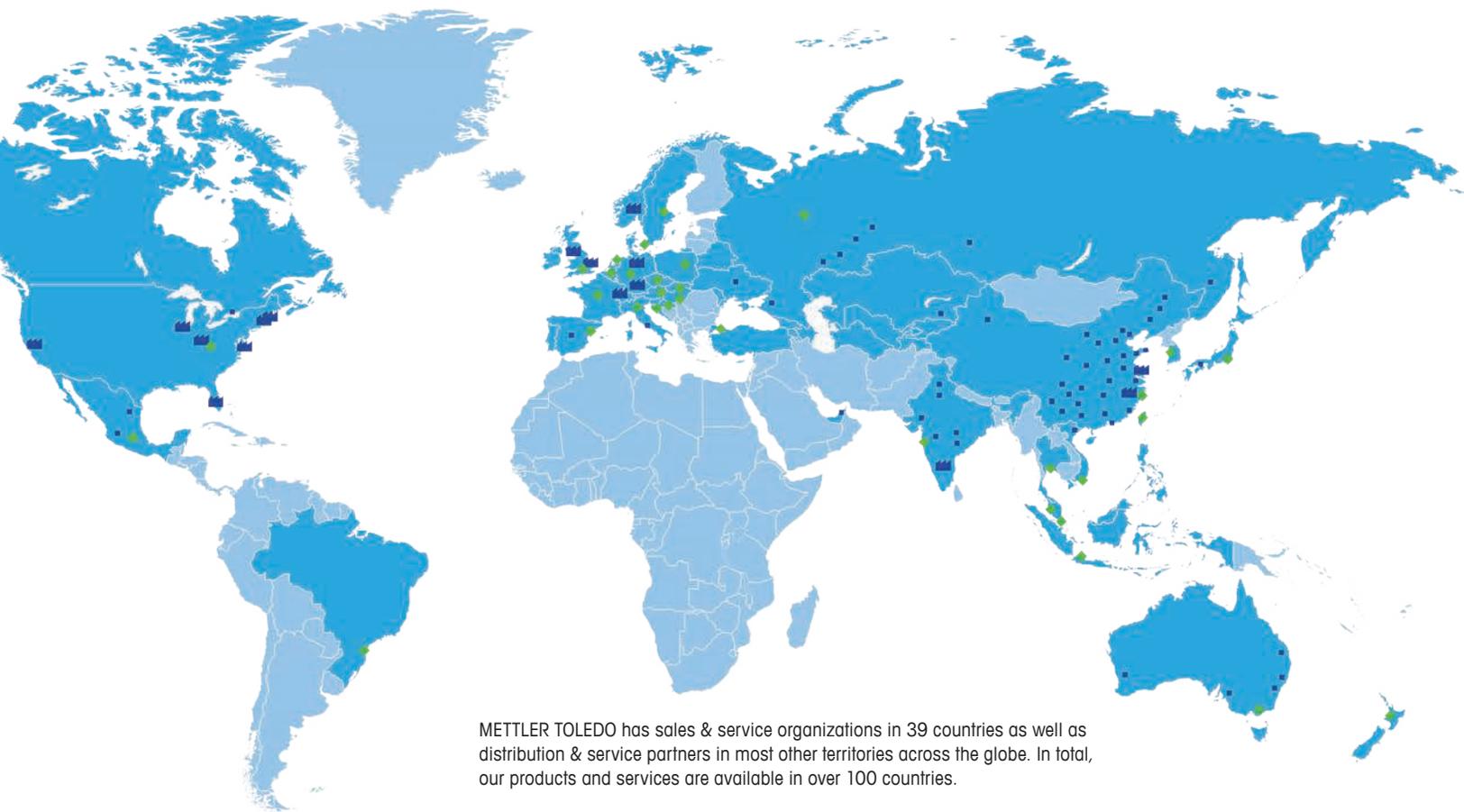
We provide extensive documentation for installation, commissioning and verification to ensure internal and external audit requirements are met.

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.

► www.mt.com/service-pi

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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