

X-ray Inspection

SAFELINE

Metal Detection & X-ray Inspection

X-ray Inspection Systems

Contaminant Detection

Quality Assurance



X-ray Inspection

For Safe Products & Brand Protection

METTLER TOLEDO



X-ray Systems for Contaminant Detection and Quality Assurance

METTLER TOLEDO Safeline X-ray inspection systems provide complete operational confidence to food and pharmaceutical manufacturers and their retail channels through innovative technical solutions derived from consumer and industry insights. They help ensure product safety and integrity in order to avoid product recalls and customer complaints. They help manufacturers to achieve compliance with HACCP and retailer requirements as well as national and international regulations.

X-ray inspection technology offers exceptional contamination detection, such as glass, metal, stone and high-density plastics, even for products packaged in foil or metalized film. In addition, x-ray systems can simultaneously perform a wide-range of in-line quality checks including measuring mass, counting components, identifying missing or broken products, monitoring fill levels, inspecting seal integrity and checking for damaged packaging.

X-ray Safety

METTLER TOLEDO Safeline X-ray Inspection systems use low energy, electrically generated x-rays that are fully contained to the highest standards in the industry in order to protect plant workers and leave inspected products unaffected. Each system exceeds the US Food and Drug Administration (FDA) requirements that the radiation emitted from a cabinet x-ray system not exceed an exposure of 0.5 millirads in one hour at any point 5cm from the external surface. This is significantly lower than everyday exposure from the natural environment. Every Safeline X-ray Inspection system is tested by approved, certified auditors before leaving the manufacturing facility.



All Safeline X-ray systems feature:

METTLER TOLEDO Safeline is the world's leading x-ray inspection brand providing inspection solutions predominantly for the food and pharmaceutical industries. X-ray systems can automatically detect and reject products contaminated with metal, glass, stone, and bone.

PowerChek & PowerChek Plus X-ray Systems

- Designed specifically to meet the product contamination detection needs of volume producers of bulk and packaged food and pharmaceutical products
- Seven PowerChek Plus models offer conveyor belt widths from 11 to 41 inches and scan widths from 10 to 40 inches
- Six PowerChek models offer conveyor belt widths from 11 to 33 inches and scan widths from 10 to 32 inches
- PowerChek x-ray inspection systems are rated NEMA 4/IP65 with PowerChek Plus models offering a option of NEMA PW12/IP69K



PowerChek Plus Poultry X-ray Systems

- Designed specifically to meet the unique inspection needs of processors of boneless poultry products
- The system provides reliable contaminant detection up to 150 ppm per lane on up to two lanes
- The system uses a single x-ray generator that produces two beams as well as two detectors allowing inspection of each product from two opposing angles
- Each system is fabricated to meet the processor's unique requirements including customized infeed and outfeed conveyors



PipeChek and PipeChek Plus X-ray Systems

- Designed specifically to meet the contaminant detection needs of processors of pumped liquid, slurry and solid products
- PipeChek and PipeChek Plus x-ray systems can inspect pumped products at throughput rates of 10,000 and 34,000 lbs. per hour respectively
- Both models can accommodate pipe diameters of 2, 3 or 4 inches and are rated NEMA PW12/IP69K
- Opti PipeChek combines a Marlen Opti-Series Pump with a PipeChek x-ray system for detection and rejection of bones and metal contaminants at speeds up to 34,000 lbs. per hour



Certus XR X-ray Systems

- Designed specifically to provide reliable, cost-effective contaminant detection for producers of small, packaged products
- Two models offer inspection areas of 300mm and 400mm respectively
- Certus XR systems are rated NEMA 4/IP65, feature a hygienic design and can be totally disassembled in seconds without tools
- A full-color, user-intuitive 6 inch touch-screen makes operation extremely simple and enables quick product changeovers



SmartChek & SmartChek Plus X-ray Systems

- Designed specifically to provide reliable, cost-effective contaminant detection for producers of small and medium-sized packaged products
- Three SmartChek Plus models and three SmartChek models offer inspection areas of 12, 16 and 24 inches respectively
- A full-color, user-intuitive 6 inch touch-screen makes operation extremely simple and enables quick product changeovers
- SmartChek x-ray inspection systems are rated NEMA 4/IP65 with SmartChek Plus models offering a option of NEMA PW12/IP69K

SideChek X-ray Systems

- Designed specifically to meet the contaminant detection needs of processors of tall packages like plastic bottles and fiberboard canisters in non-wash down areas
- Two SideChek models offer inspection heights of 200mm and 300mm respectively
- SideChek x-ray systems can operate at speeds up to 600 fpm and 1,200 ppm
- Both models are rated NEMA 4/IP65 with options for 3A, AMI and NEMA PW12/IP69K ratings



GlassChek Plus X-ray Systems

- Designed specifically to meet the glass-in-glass and other contaminant detection needs of processors packaging their products in glass containers
- The system creates and analyzes four images of each product – one top-down and three side views from opposing angles – thereby eliminating blind areas and increasing the probability of detection of a contaminant
- GlassChek Plus x-ray systems can operate at speeds up to 320 fpm and 1,200 ppm
- The system is rated NEMA 4/IP65 with an option for NEMA PW12/IP69K and can be totally disassembled in seconds without tools



Bandoleer X-ray System

- Designed specifically to meet the contaminant detection needs of food and pharmaceutical processors packaging their products in continuous webs or bandoleers including pouches, packets and blister cards
- Bandoleer systems can operate at speeds up to 2,000 packages per minute and detect contaminants as small as 0.6mm
- System frames can be custom-designed to integrate into almost any production line
- Systems are rated NEMA 4/IP65

METTLER TOLEDO Service

Uptime Performance Compliance Expertise

METTLER TOLEDO Service ensures you get the best out of your product inspection equipment.

Your metal detection, x-ray inspection, checkweigher and vision inspection systems are important to you and you want to ensure you get the best out of your investment, for a long life-time:

- Your operators and your technical staff need to be productive and safe. They need to know how to operate and maintain your equipment.
- You require your equipment to be up and running all the time. You want to maintain the accuracy and functionality of your equipment – regardless of circumstances and usage, for many years of dependable operation.
- You need to stay compliant with your quality requirements, applicable laws and regulations and you want to pass any audit flawlessly.

METTLER TOLEDO Service knows what it takes, we have unique blend of service offerings designed to suit your specific business needs organized under our core values of Uptime, Performance, Compliance and Expertise.

Uptime Services

- Repair, on-site and remote support
- Wear & tear parts
- Spare parts & kits
- Refurbishment

Performance Services

- Qualified commissioning
- Setup and configuration
- Preventive maintenance
- Software maintenance
- Instrument & process optimization
- Application support

Compliance Services

- Calibration and certificates
- Pre-audit performance verification
- Qualification and validation
- Documentation and testing

Expertise Services

- Basic user and technical training
- Advanced application training
- Consulting and customization
- System and process integration
- Expert seminars
- Documentation and downloads



Service Solution Packages – the cornerstones of our service offering

Installation and Performance Verification Package (IPac)

The IPac qualification package ensures that new machines immediately provide a return on investment and help you meet your compliance obligations. Our service technicians verify that your system was installed properly and then commission it to ensure it meets the highest performance parameters in active service. Operators are trained to ensure the system maintains optimum efficiency in your processes.

IPac provides:

- A framework that meets the needs of ISO and HACCP standards
- Assurance from start-up that your system is operating at peak performance
- The tools to monitor critical control point performance
- A systematic approach to record-keeping and documentation



Preventative Maintenance (PM)

With a Preventative Maintenance package, our service technicians examine your processes in depth including product throughput, packaging variables, contaminant identification and other key variables. This determines the appropriate level of maintenance to keep systems 100% operational, 100% of the time. Routine maintenance visits will then be scheduled as part of a standard, extended or tailored service agreement.

Performance Verification (PV)

With a Performance Verification Package, our service technicians will audit the performance of your systems to insure they meet the requirements of your HACCP plan and up-to-date legislative and regulatory requirements. It ensures that meteorological data is reliable and it provides certification that is valuable, recognizable and understood by auditors. Performance Verification visits can be scheduled separately or as part of a standard, extended or tailored service agreement.



Service Tech Locations

ProdX

Enhanced Product Inspection Software

ProdX from METTLER TOLEDO delivers monitoring and data management on your new or existing Hi-Speed Checkweighers, Safeline Metal Detectors or Safeline X-ray Inspection Systems to increase system productivity, improve product quality, enhance process security, and deliver complete clarity of your product inspection program.



- **Productivity:** Centralized product set-up and changeovers reduces operator errors, shortens set-up time, and increases production uptime
- **Quality:** Dashboard monitoring for early warning indication of key inspection processes to ensure product quality is never compromised
- **Security:** Events monitoring tracks device alarms, events, and changes for process security. Robust user management means only authorized personnel have access to critical product and production information
- **Clarity:** Graphical user screens with machine state status icons, active reject monitoring by device complete with comprehensive reporting capabilities ensure you have complete clarity of your product inspection program



ProdX is scalable to meet your needs whether monitoring a single packaging line or monitoring numerous lines from multiple production sites and is supported by the largest team of Product Inspection sales and service professionals in the world.

www.mt.com/pi

For more information

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Subject to technical changes
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Printed in USA