Metal Detection
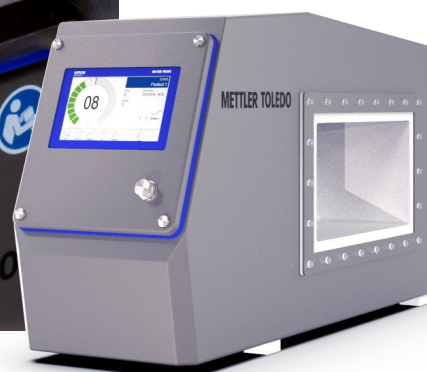
M30 R-Series

Metal Detectors for Conveyors

Versatile, Reliable Inspection

Enhanced Performance

Flexible, Future-Proof Solutions

Affordable Compliance
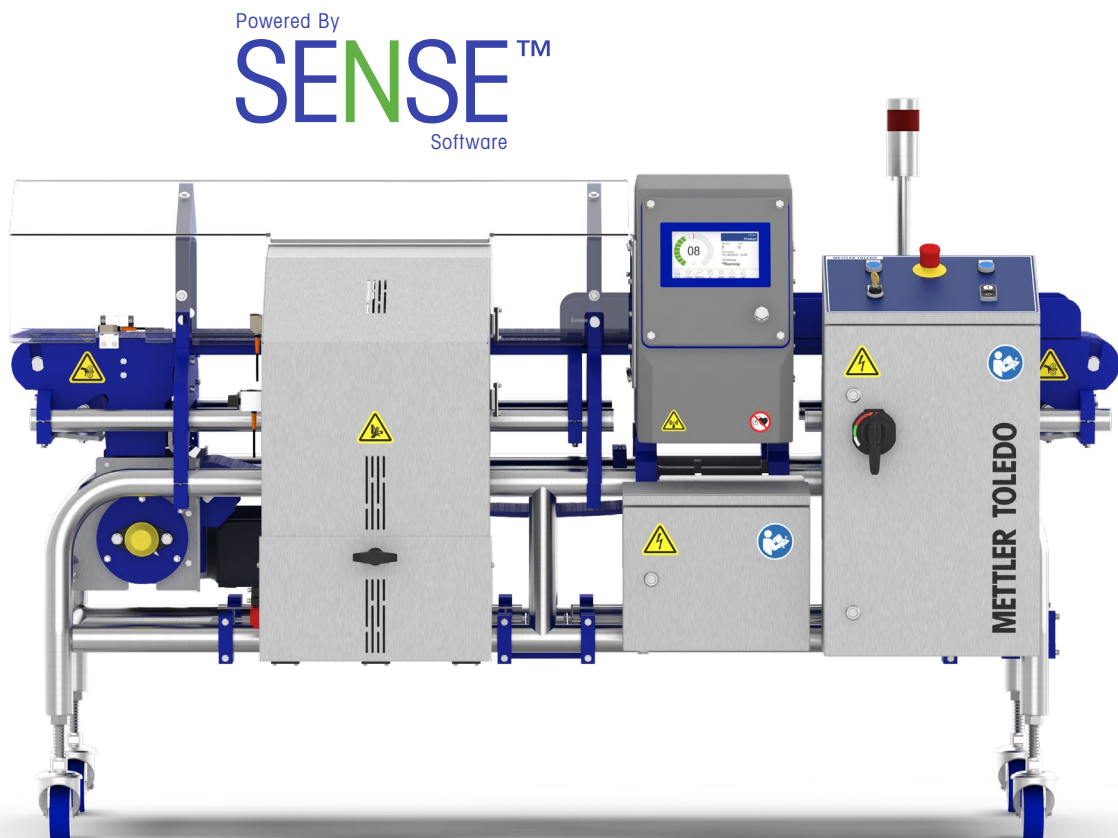## Smart, Digital Solutions

METTLER TOLEDO

Game-Changing Technology
Setting a New Standard

METTLER TOLEDO Safeline's M30 R-Series metal detection systems make it easier to achieve cost-effective compliance now and in the future. Our entry-level range caters to manufacturers who simply want a metal detector that works, and is easy to install, operate and maintain. With streamlined feature sets, these metal detection systems can help meet your budget and sensitivity performance needs.

The foundation of the M30 R-Series is the SENSE™ software powering the systems. SENSE is cutting-edge metal detection software that improves the capability to detect smaller contaminants. It supports greater process quality by centrally coordinating every element of the metal detection system, orchestrating the integration of the metal detector, sensors and reject mechanism to work in harmony. SENSE combines with advanced software algorithms to make split-second judgment calls on contamination, and significantly reduce false reject rates.

The smart, digital platform is driven by SENSE software. SENSE delivers centralized command and control functionality of the integrated metal detection system to improve ease of use and enhance overall process quality.

SENSE Simplifies Operation

▸ An icon-driven touchscreen cuts down on operator error, making the system as easy to operate as a smart phone

▸ SENSE stores your product settings for efficient product changeovers

▸ Comprehensive digital access controls enhance security, helping to prevent unauthorized changes to system settings

▸ Software-centric control puts the metal detector firmly in control of the integrated system; it alerts the operator to issues and can advise how to resolve them

▸ SENSE continuously monitors the health of the overall system, providing information that can assist operators to investigate potential issues before unplanned downtime occurs
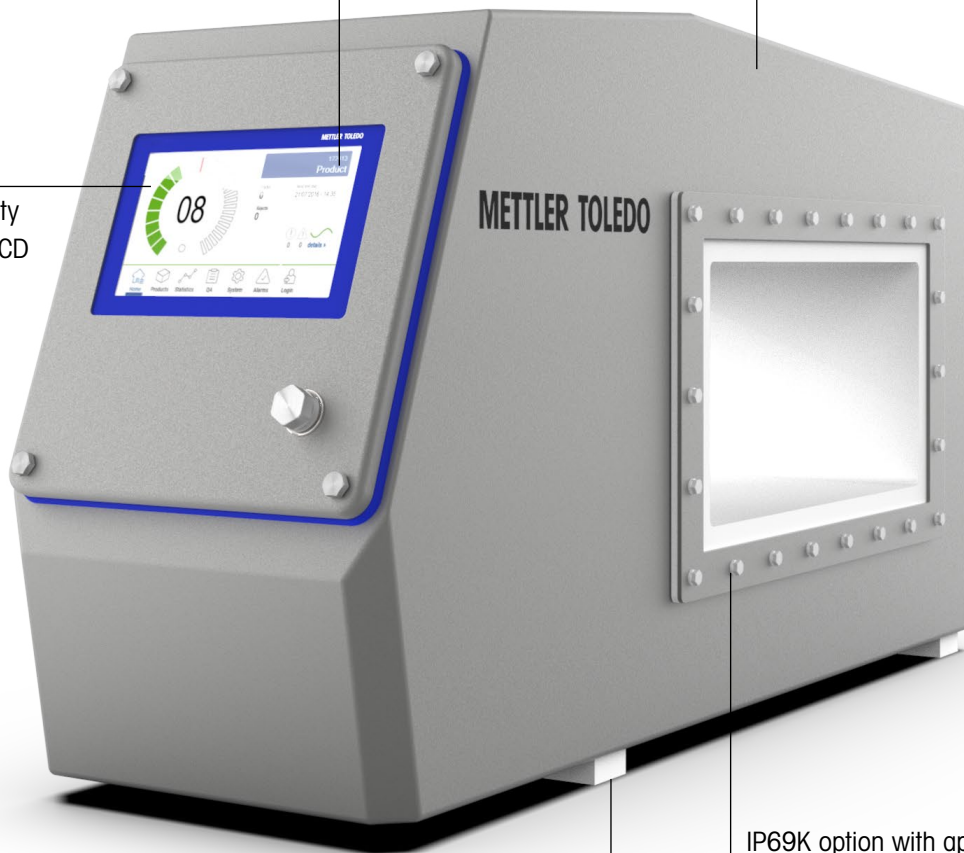
High Performance
Versatile, Reliable Inspection

Our M31R StandardLine model offers robust construction and consistent, high sensitivity to all metal types to deliver affordable quality control. Modern sensor technology improves inspection performance to help safeguard brands and consumers. Create a fully-integrated metal detection system by combining the M31R with a wide range of conveyor systems.

Easy to use, menu-driven user interface, customizable to different users' needs

New ergonomic, rugged, industrial styling

Excellent viewability with widescreen LCD display

METTLER TOLEDO

IP69K option with application-proven, multi-way seal technology and one piece liner offers protection against water ingress in harsh washdown environments

Backwards-compatible with existing material handling systems

StandardLine Metal Detectors

Affordable Compliance

When combined with one of our conveyor systems, the M31R model delivers a fully-integrated metal detection system capable of detecting and rejecting all types of metal.

▸ This entry level model delivers reliable inspection performance using patented eDrive™ technology to detect smaller metal contaminants, and with the right maintenance could run for 20 years or more

▸ On-screen indicators confirm inspection, detection and rejection status; reject counts are displayed for ease of reference

▸ M31R models are future-proof thanks to the scalable platform and modular components

Versatile Inspection

Easy To Operate

The entry-level M31R is designed with the operator's needs in mind.

▸ The intuitive, icon-driven touchscreen makes operation simple

▸ Guided set-up routines improve efficiency

▸ Dynamic Stability Control enhances stability by minimizing the impact of interference from environmental factors on the metal detector's performance to minimize false rejects

Simple To Use

Built To Last

Our entry level model delivers a high level of performance, reliability and quality that METTLER TOLEDO Safeline is known for.

▸ A rugged, stainless steel, backward-sloping case, with 3 levels of ingress protection supports long-term, reliable operation in a range of manufacturing environments

▸ User-replaceable, modular spare parts simplify maintenance processes and reduce total cost of ownership.

▸ The upgradable platform allows you to extend the useful life of your metal detector without needing to replace it

Rugged Reliability

▸ **www.mt.com/md-M31R**

Enhanced Performance
Affordable Compliance

Our PlusLine models are built on the same robust platform as our StandardLine models, but offer a step-change in performance. At the PlusLine level, you get a choice of inspection technologies to suit different product characteristics. This high performance range is designed to excel in a diverse range of production environments.

All of our M30 R-Series models can be integrated with a range of conveyor systems, including our latest GC Series systems, to provide a fully-integrated metal detection system to support your productivity, compliance and brand protection needs, and help to reduce your risk of a product recall.

PlusLine Metal Detectors

M33R PlusLine

▸ Delivers up to 20 percent better spherical sensitivity performance in dry product applications using tuned, high frequency technology and patented eDrive technology; comes with three frequencies as standard.

▸ Typical applications: dry pasta; cereal bars; savory snack foods; deep frozen produce; personal care products.

▸ **www.mt.com/md-M33R**

Dry Product Applications

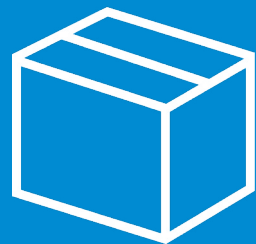## **M33RB PlusLine**

▸ A combination of innovative coil geometry and tuned, high frequency technology with patented eDrive technology increases the spherical sensitivity performance for bulk product applications by up to 30 percent.

▸ Typical applications: blocks of meat, sacks of flour, cartons of finished goods.

▸ **www.mt.com/md-M33RB**

Bulk Product Applications

M34R PlusLine

▸ A combination of Dual-Simultaneous Frequency (DSF) technology and our '3S' algorithm increases spherical sensitivity performance by up to 25% over tuned technology for challenging chilled, wet, frozen / thawing or metallized film applications to reduce false rejects (and associated costs) significantly.

▸ Typical applications: raw meat, poultry and seafood; freshly baked bread; ready meals; metallized film-packed products.

▸ **www.mt.com/md-M34R**

Wet or Conductive Product Applications

The Perfect Partnership
Future-Proof Flexibility

A stable, reliable, high performance metal detector facilitates maximum uptime and brand protection. Integration with our next generation GC Series conveyor systems, efficient reject mechanisms and a suite of due diligence features supports increased productivity and makes compliance easier. Safety elements have been designed-in to support quality control processes.

Backwards and forwards compatibility with Safeline's extensive range of metal detectors means you can upgrade your transport mechanism without needing to replace the entire system.

Software-Centric Control

When integrated with an M30 R-Series metal detector, you benefit from software-centric control of the fully integrated system. The metal detector directs the process, assesses the inputs and outputs of the integrated system, and coordinates the actions of each component.

Enhanced Hygiene

▸ Cleaning processes are simplified due to a tubular, open frame design and the ability to easily remove belts and other modules.
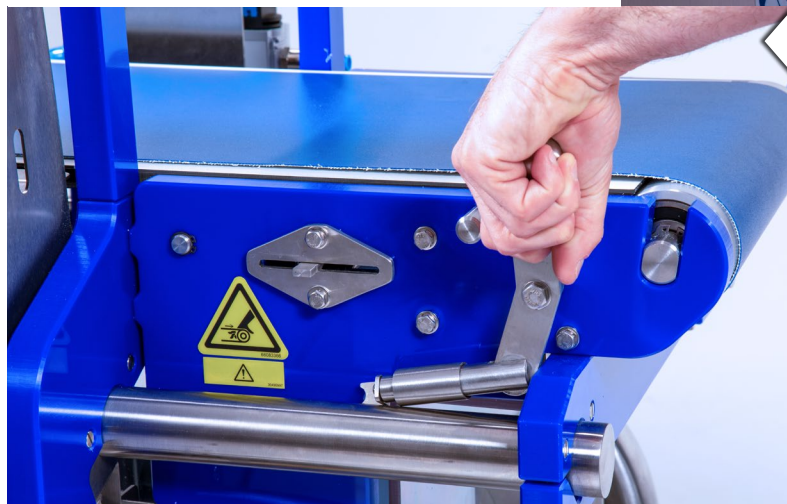
Design Reduces Risk

▸ Key safety features such as guarding and Lock Out Tag Out (LOTO) devices for electrical and pneumatic systems help protect operators and support safer maintenance practices.

Reduced Cost of Ownership

▸ Modular construction facilitates re-configuration - whether you need to reposition, replace or add key components - no welding, drilling or cutting required.

▸ Fewer wear parts and common system elements reduce your spare parts inventory requirements and help to minimize potential downtime risks.
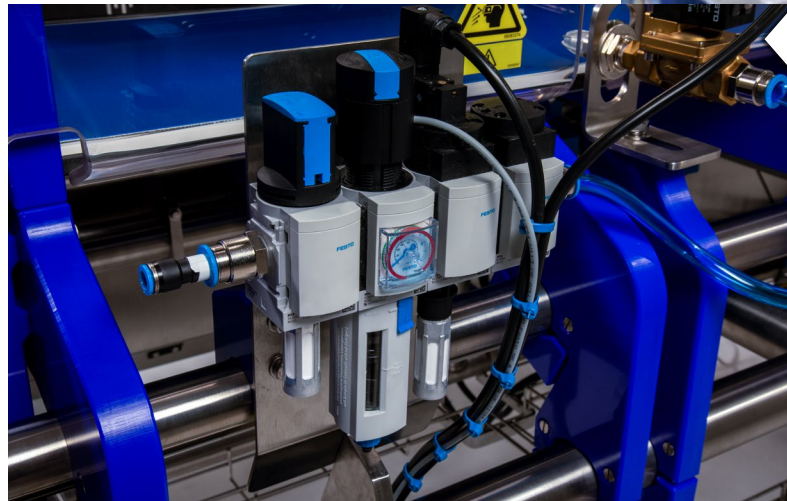
Service and Global Support
Through Local Expert Teams

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 24/7. We have over 3600 technicians in over 40 countries, with 600 dedicated to Product Inspection. Combining our global presence with the latest digital technology, we can offer customers short response times and reliable repair services, either on-site or remotely.
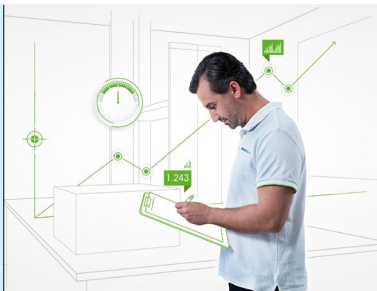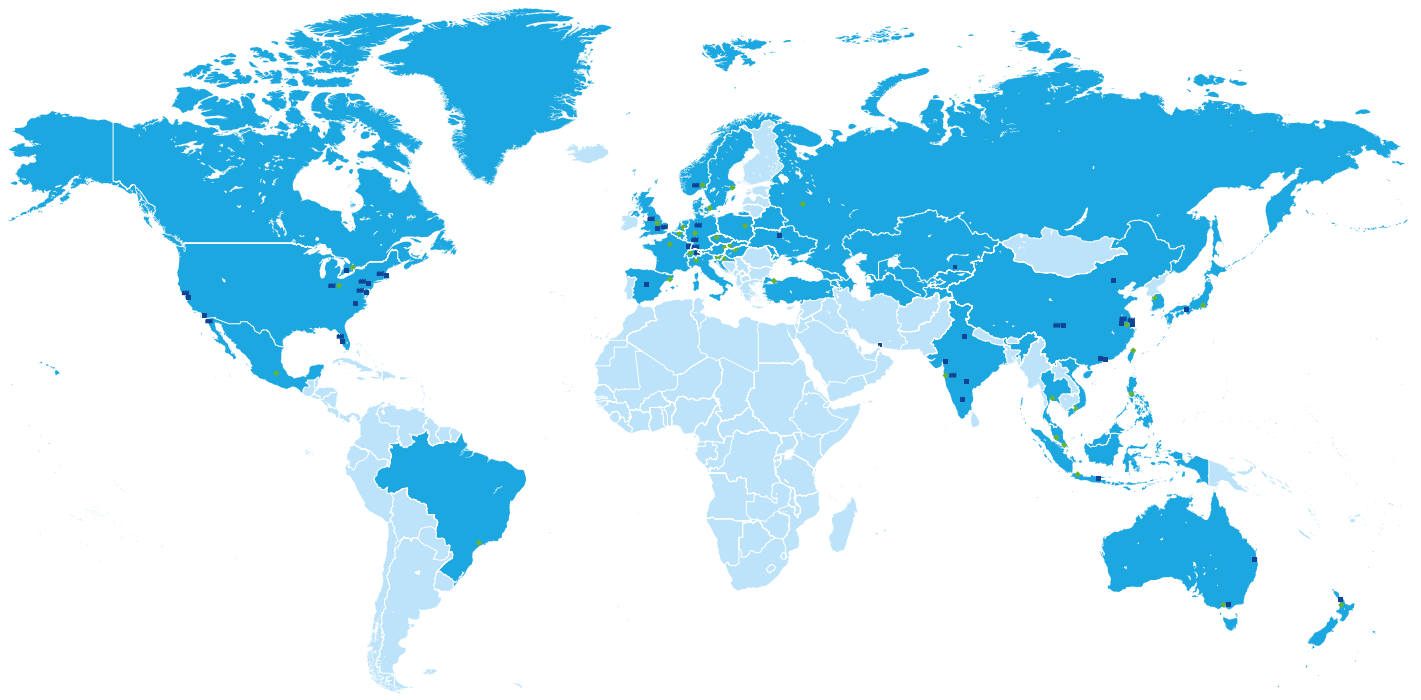
METTLER TOLEDO Service

**Our approach to service is comprised of four key areas:**

Uptime
▸ Regular preventive maintenance to help maximize equipment uptime
▸ Professional repairs using genuine METTLER TOLEDO spare parts and kits
▸ Dedicated service contracts to minimize risks and help ensure equipment is always operating at peak performance

Performance

▸ Professional setup and configuration to help meet agreed performance levels and help meet compliance needs

▸ Regular performance verification to facilitate equipment being able to run at peak performance

▸ Regular updates & upgrades
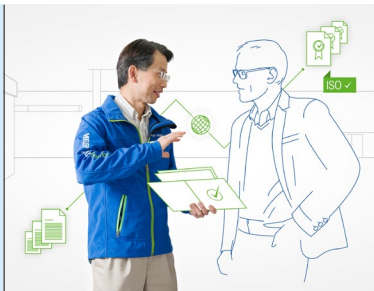
Compliance

▸ Professional documentation and certification of compliance-related service activities

▸ Expert startup to help meet highest food safety standards with IPac

▸ Regular performance verification to help you meet audit requirements

Expertise

▸ Training for operators, quality and maintenance staff

▸ Comprehensive solutions - literature and technical documentation

▸ Expert trusted advice and solutions consultation

▸ **www.mt.com/pi-service**

Solutions to Match
Your Needs

The M30 R-Series is part of a broader range of tunnel metal detectors covering standard solutions to challenging applications. This gives us the ability to deliver systems matched to your performance and budget needs.

M30 R-Series
▸ Intelligent inspection
▸ Affordable compliance

Signature Touch R-Series
▸ High performance
▸ Easy to use

Profile R-Series and
Profile Advantage R-Series
▸ Maximum detection performance
▸ Optimized for specific applications

www.mt.com/metaldetection

For more information