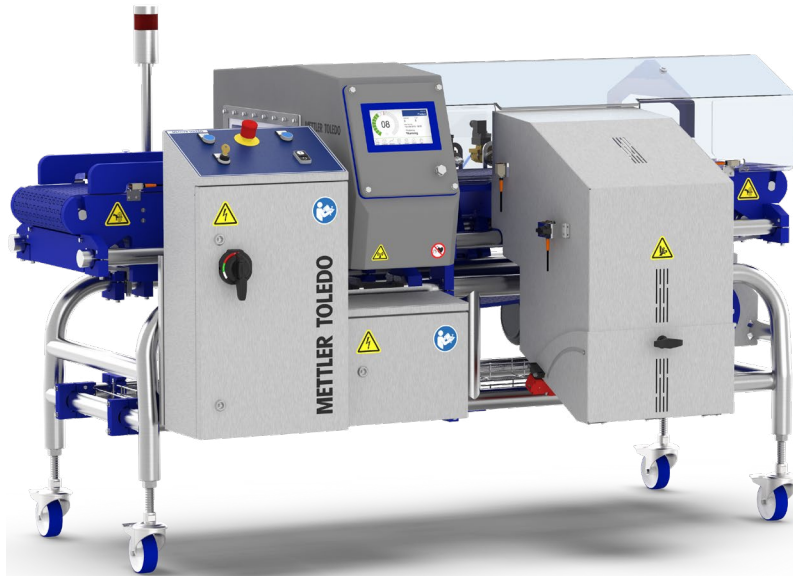


## Enhanced Detection Performance In Dry Applications



### M33R PlusLine – Enhanced Detection Performance

**Our next generation M33R metal detector is a smarter, more sensitive solution that delivers up to 20% higher spherical detection performance over entry level tuned solutions. The opportunity to upgrade it in future as production or compliance needs change provides future-proof flexibility.**

The M33R is smart, digital technology packed into a rugged design built for demanding production environments. We have built the M33R with an eye to the future, making it easier to keep up with increasingly strict compliance requirements.

The M33R can be integrated with a range of conveyors, including our latest GC Series systems. This combination can give you an upgradable solution at an affordable price, and help to protect your brand, processes and profits.

All M33R models have high-frequency, tuned technology with three user-selectable frequencies to choose from, so they can deliver excellent sensitivity to all metal types in a range of dry product applications.

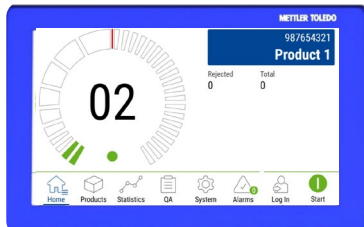
**METTLER TOLEDO**

# Enhanced Performance In Dry Applications

- Tuned, very high frequency and patented eDrive™ technology deliver up to 20% better spherical sensitivity in dry applications over entry-level tuned solutions
- Smart technology for enhanced process control
- Easy to use, set up and maintain
- Simplify essential tasks with intuitive software

M33R is the right choice for inspecting a wide range of dry products when you need to balance achieving inspection performance with budget needs. Integrate it with a wide range of conveyor systems for a fully-integrated solution that can reliably inspect and effectively detect and reject metal-contaminated products, enabling them to be removed from the production line.

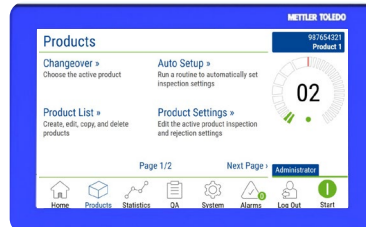
## Smart, Digital Technology



Powerful digital technology powered by innovative SENSE™ software, combined with advanced algorithms delivers better quality control:

- High detection capability for all metal types
- Excellent on-line stability
- Enhanced reject confirmation assurance

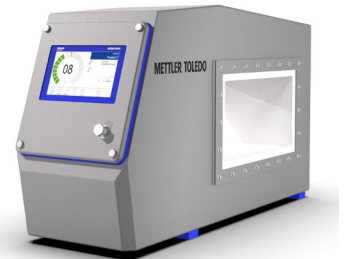
## Easy Setup and Operation



The M33R is designed for simple operation to deliver consistent, high-performance results for the life of the system.

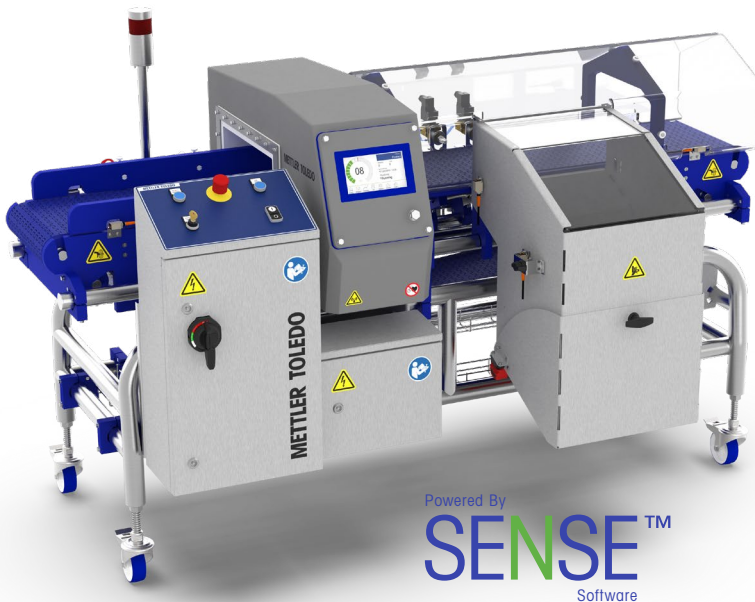
- Icon-driven menus in local language simplify operation and greatly reduce error risk
- The full-color touchscreen makes it easy to review essential data quickly

## Built to Last



Dynamic Stability Control (DSC) creates a stable, reliable, platform capable of delivering long-term performance when supported with appropriate maintenance:

- Advanced detection coil stabilisation technique
- Enhanced Automatic Balance Control (ABC)
- Noise filtering
- Vibration immunity

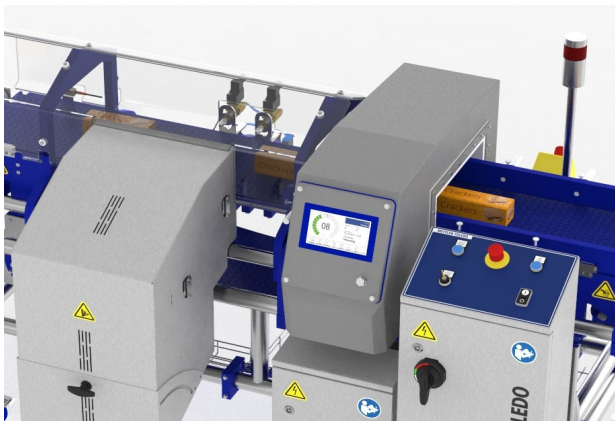


## Software-Centric Control

### For Enhanced Performance

As the design authority for both the metal detector and the product handling solution, we can maximize the potential for trouble-free, long-term system performance. With our next generation systems, the metal detector is in complete control of the integrated system, to support greater process control.

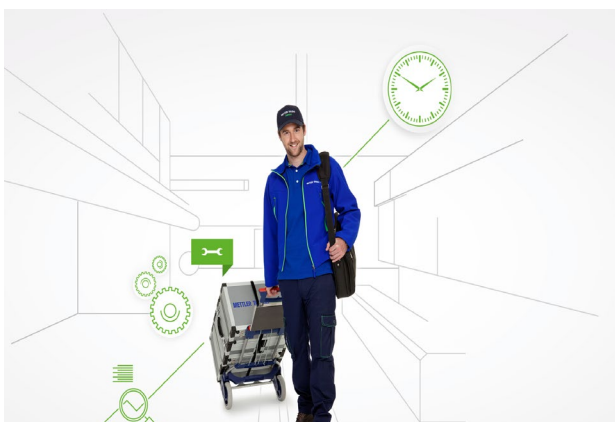
## System Integration



The M33R is compatible with an extensive range of conveyor systems to provide a fully-integrated metal detection solution.

- Choose from basic stop alarm systems or a range of fully automated reject devices
- Customize your system with a suite of failsafe devices, warnings and alarms
- Zero Metal Free Zone (ZMFZ) option available for restricted space applications

## Global Service and Support



**METTLER TOLEDO Service** with global reach and tailored care solutions.

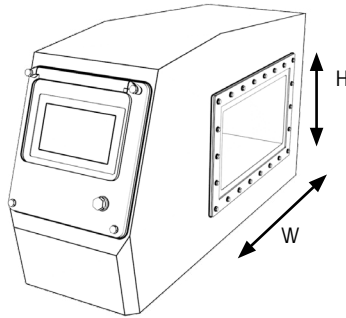
A global service network delivers local support, covering professional installation and service plans through to spare parts delivery. This helps the M33R to deliver maximum performance and results throughout the system's lifecycle.

Various flexible solutions

- Care Contracts
- IPac and Performance Verification
- Preventive Maintenance
- Certified Test Samples
- Recommended Spare Parts
- Modular Operator, Quality Assurance and Maintenance Training

## M33R PlusLine

### Enhanced Performance in Dry Applications



**M33R PlusLine metal detector head**

#### Fully Integrated Conveyorized System Options

For information about conveyor system compatibility and system-specific technical specifications please refer to the applicable **conveyor systems brochures**. These are available on the documentation tab of our website.

► [www.mt.com/md-M33R](http://www.mt.com/md-M33R)

	Technical Details	M33R PlusLine
Sensitivity Features	Operating frequency	Very high, tuned, single frequency operation with 3 user-selectable frequencies
	Standard aperture widths (W)	100 mm - 1900 mm*
	Standard aperture heights (H)	75 mm - 1000 mm*
	Mounting methods	Base, oversquare
Productivity Features	Human-machine interface (HMI)	7" WVGA touchscreen
	Languages (menus, prompts)	33
	Product memories	200
	Setup	Simple set-up with manual product clustering
Environment Features	Zero Metal Free Zone	Option (to reduce overall system length)
	Ingress protection rating	Light duty IP65; Medium duty IP66; Heavy duty IP69k
	Surface material and finish	Stainless steel SS304, SS316; bead-blast or brushed
	Operating temperature	-10 to 45 °C
	Electrical (metal detection head)	100 to 240 VAC (+10% / -15%), 50 to 60 Hz, max 220 W
Compliance Features	Routine Alarm with "Due" notification	Performance Monitoring Alarm
	Performance Indicator	Color-coded bar graph and digital display; pack count; reject count
	USB Port	Yes - facilitates system upgrades and software updates
	Due Diligence Capability	Base Pack**
	Inputs and outputs	10 programmable inputs; 6 programmable outputs
	Performance Verification	Option - annual PV Service
Service Features	Spare Parts	Modular spare parts and kits available
	Start-up Support	IPac option
	In-life support	Preventative Maintenance, Care Contracts Operator / Quality / Maintenance Training

\*Please contact your local METTLER TOLEDO Product Inspection sales representative for full specification details.

\*\*Base Pack capability includes: infeed pack sensor monitoring, air failure warning, bin full warning, rejected product confirmation / reject operation failure, head fault warning, belt stops on all warnings/faults (hardware required - refer to conveyor system brochure for full details)



**Mettler-Toledo Group**  
Product Inspection Division  
Local contact: [www.mt.com/contacts](http://www.mt.com/contacts)



Subject to technical changes.  
© 08/2021 METTLER TOLEDO. All rights reserved.  
PI-MD-EN-GEN-M33R-DS-03092021

[www.mt.com/metaldetection](http://www.mt.com/metaldetection)

For more information