

# ERIEZ



## PRECISIONGUARD X8 METAL DETECTORS

REPEATABILITY • ACCURACY • EFFICIENCY



**ERIEZ**  
GLOBAL LEADER IN SEPARATION TECHNOLOGIES

## About Eriez

Established in 1942, Eriez stands as a pioneering force in separation technologies, embodying a truly global presence.

With 12 wholly owned subsidiaries across the world, we proudly design, manufacture, and support our metal detection, magnetic separation, flotation, X-ray inspection, and material handling equipment on an international scale.

Our dedicated team of knowledgeable and experienced sales engineers collaborates closely with customers, understanding their unique challenges to deliver dependable, high-performance equipment, systems, and solutions.

Whether clients require our standard equipment or custom solutions tailored to their precise specifications, Eriez delivers.

Drawing from more than 80 years of experience across diverse industries including food, packaging, and processing, mining and minerals processing, aggregates, metals recycling, and many other sectors, Eriez leverages its extensive experience to design and supply products that elevate productivity, efficiency, and product purity.

Eriez remains steadfast in its commitment to setting the global standard for excellence in key technologies, driving innovation and reliability across industries worldwide.

# PrecisionGuard X8 Metal Detectors

Advanced metal detection for sanitary applications delivering maximum sensitivity and ease-of-use.



## The New Standard in Accuracy & Efficiency

Reliable and easy-to-use, Eriez' PrecisionGuard X8 Metal Detectors identify small ferrous, nonferrous, and stainless steel contaminants. The X8 offers a high-resolution touchscreen interface, straightforward setup and reporting, multiple communication ports, and a rugged construction designed for high-pressure washdown.

## Engineered for Excellence

Our PrecisionGuard X8 Metal Detector is ideal for packaged products, raw or bulk flow, food applications, and processing industries. Each model is designed to meet and exceed compliance standards and reduce downtime.

## Models for Your Exact Needs

The X8 Metal Detector has a line of model variations engineered to meet the needs of specific applications. No matter what space or process flow you're working with, Eriez has you covered.

- X8 Tunnel Metal Detector
- X8-SF Tunnel Metal Detector
- Tunnel Metal Detector with Conveyor
- Liquid Line Metal Detector
- Vertical Free Fall Systems
- Webline Metal Detector
- Vertical, Form, Fill & Seal (VFFS)

## Design & Function

- Full-colour capacitive touchscreen
- Large, angled, easy-to-read user interface
- Highly dependable detection
- Designed for IP69 washdown conditions
- Multiple communication ports – USB and Ethernet

## State of the Art Software

- Automatic setup and adaptive product learning
- Easily editable product settings
- Four password-protected levels of access
- Download reject and event logs over LAN
- Digital storage of verifications, rejects, and events
- Traceability to support HACCP, GFSI, SQF requirements
- Quality Retail Compliance software included

## Network & Communication

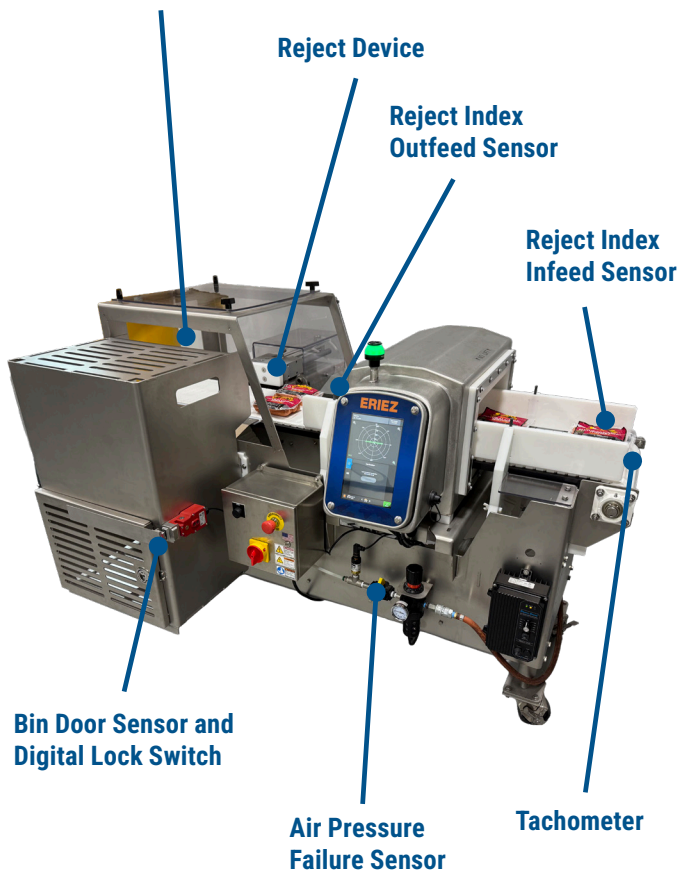
The X8 Metal Detector device is designed with multi-function communication ports. Collected detection readings create an easy-to-access audit trail for thorough transparency and documentation. In addition to helping with compliance and safety regulations, these features improve workplace efficiency and eliminate the time spent on manual log extraction.



# Quality Retail Compliance Kit

Developed in response to escalating food safety and quality demands, the Quality Retail Compliance (QRC) Kit features guided challenge testing, dependable fail-safe verification, and comprehensive event logging, automatically recording every reject and test action to simplify audit preparation and reporting. Optional hardware components, including digital reject bin auto locks, tunnel guards, air pressure failure sensors, and photo-eye sensors, provide real-time oversight of critical inspection points. If any condition falls outside specification, the system immediately halts operation and alerts personnel to ensure rapid correction and continuous product quality.

## Product Check Sensor



## Customisable Solutions

Don't see the ideal fit for your specifications? Contact us. We can design exactly what you need and provide tailored equipment.



## Designed for Your Industry

- Food
- Packaging
- Beverage
- Pharmaceutical
- Chemicals
- Plastics
- Rubber
- Textiles

## Tunnel Metal Detector

With user-friendly features and versatile capabilities, the X8 Metal Detector is designed to suit any in-line processing application where space is limited and accuracy is essential. This head unit features a large touchscreen interface and dynamic features catered to the user.

For more demanding applications, the X8-SF uses simultaneous frequency technology to improve detection in conductive material such as meat, poultry, and dairy products. Items with high salt, moisture, or added mineral content are able to be scanned thoroughly, in addition to iron-fortified or nutritionally enhanced products. Reduce false rejections due to “product effect” variations. Deliver repeatable detection while enhancing assurance at the metal detector critical control point (CCP).



## Tunnel Metal Detector with Conveyor

Pair our X8 or X8-SF technology with a durable conveyor for continuous processing to quickly integrate with existing processing flows and inspection checkpoints. Our Tunnel Detectors with Conveyors are available in a wide range of sizes and equipment options such as rejection devices, sensors, and guards.

- Food-grade belts
- Single point of power in 110/220 VAC
- Stainless steel construction



## Vertical Free Fall Systems

Eriez' Vertical Free Fall Detectors are engineered for use in gravity applications. Their low-profile design utilises an Eriez detector with remotely housed electronics, a support plate and diverter valve. Features include:

- Compact design ideal for space-restricted areas
- Direct attachment to metal pipes or hoppers
- Test ball retrieval system for in-production testing
- Easy installation below hoppers or silos



## Liquid Line

Eriez' Liquid Line Metal Detector systems are designed for liquids, pastes, slurries, or other viscous products where high-sensitivity metal detection is required. When metal is detected in the product flow, a reject signal is channeled to one of the available output relays. The output relay can be used to activate a 3-way ball valve, control a visual or audio alarm, or send a signal to a PLC. Features include:

- Vertical or horizontal, floor or ceiling mounting capabilities
- Suited for Clean-In-Place (CIP) or Clean-Out-of-Place (COP) methods
- Remote HMI control
- Availability in pipe sizes 38 mm (1.5") to 102 mm (4") diameter



## Webline

Eriez' Webline Metal Detectors are engineered for use on web or sheet applications via remote control. Heavy-duty construction meets a narrow profile, as the micro metal-free area of the unit permits it to be installed in areas with limited space and with little isolation of any surrounding equipment. Applications:

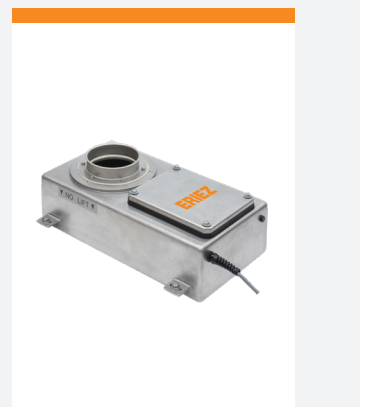
- Plastics
- Rubber
- Textiles
- Paper
- Wood
- Particle Board



## Vertical, Form, Fill & Seal (VFFS)

Eriez' Vertical Form, Fill & Seal (VFFS) units are designed to mount into space-restricted vertical form and fill machines. With its innovative design, the VFFS Metal Detector connects to existing stainless steel hoppers and forming tubes with simple connectors. Features include:

- Field switchable narrow zone/wide zone detection
- Instantaneous electronic recovery from phase adjustments
- Hopper attachment via connectors
- No need for a metal-free area above and below sensing head
- Five sizes of apertures: 76 mm (3"), 102 mm (4"), 152 mm (6"), 203 mm (8"), 254 mm (10")



## Control & Interface

- **Technology:** Balanced coil detection, Simultaneous frequency scanning
- **User Interface:** 257 mm (10.1") capacitive touchscreen
- **Status Indication:** Informational Light Dome for at-a-glance updates
- **Memory Data:** Stores product settings, reject logs, and event history
- **Construction:** Sloped, hygienic design for washdown environments
- **Connectivity:** USB, Ethernet, and wireless Wi-Fi bridge

## Environmental & Operating Conditions

- **Washdown Rating:** IP69, NEMA 4X / PW 12
- **Washdown Capability:** 80°C (176°F) water at 100 bar (1450 psi)
- **Ambient Temperature:** Integral: -10°C (14°F) to 49°C (120°F), Remote: -10°C (14°F) to 54°C (130°F)

## Inputs & Outputs

- **Total Outputs:** 9 outputs (one set of contacts each)
- **Form C Relays (4):** NO-C-NC, 5A up to 250 VAC / 30 VDC, reject (K1), relay 1 (K3), relay 2 (K2), relay 3 (K4), fail-safe operation on power loss
- **Form A Solid State (5):** SPST-NO, 500 mA up to 40 VDC
- Configurable NPN or PNP
- Selectable NO or NC
- **Inputs (8 total):** Configurable active high or low
- **Input Electrical:** High: 10–30 VDC
- **Typical Functions:** Tachometer, conveyor running, reject confirmation, air pressure failure, product counter

## Certifications



## Standard Tunnel Aperture Sizes

200 x 100 mm (8 x 4")	-	-	-
200 x 150 mm (8 x 6")	350 x 150 mm (14 x 6")	500 x 150 mm (20 x 6")	650 x 150 mm (26 x 6")
200 x 200 mm (8 x 8")	350 x 200 mm (14 x 8")	500 x 200 mm (20 x 8")	650 x 200 mm (26 x 8")
200 x 250 mm (8 x 10")	350 x 250 mm (14 x 10")	500 x 250 mm (20 x 10")	650 x 250 mm (26 x 10")
200 x 300 mm (8 x 12")	350 x 300 mm (14 x 12")	500 x 300 mm (20 x 12")	650 x 300 mm (26 x 12")
-	350 x 350 mm (14 x 14")	500 x 350 mm (20 x 14")	650 x 350 mm (26 x 14")
-	-	500 x 400 mm (20 x 16")	650 x 400 mm (26 x 16")
-	-	500 x 450 mm (20 x 18")	650 x 450 mm (26 x 18")
-	-	500 x 500 mm (20 x 20")	650 x 500 mm (26 x 20")

Custom sizes available

# ERIEZ

GLOBAL LEADER IN SEPARATION TECHNOLOGIES

## HEADQUARTERS

2200 Asbury Road • Erie, PA 16506-1402 U.S.A.  
+1-814-835-6000 • [eriez@eriez.com](mailto:eriez@eriez.com)  
[www.eriez.com](http://www.eriez.com)

*Note: Some safety warning labels or guarding may have been removed before photographing this equipment. Eriez, Eriez Flotation and Eriez Magnetics are registered trademarks of Eriez Manufacturing Co., Erie, PA.*

©2026 Eriez Manufacturing Co. All Rights Reserved.



**Australia**  
Epping, Victoria  
+61 3 8401 7400



**Brazil**  
Belo Horizonte, Minas Gerais  
+55 31 3281 9108



**Canada**  
Delta, British Columbia  
+1 604-952-2300



**Chile**  
Las Condes, Santiago  
+56 2 29523400



**China**  
Qinhuangdao and Tianjin  
+86-22-8390-4608



**Germany**  
Ennepetal  
+44-75-5780-9761



**India**  
Athipet, Chennai  
+91-044-2652-5000



**Japan**  
Urayasu, Chiba  
+81-47-354-6381



**Mexico**  
Querétaro, Tlalnepantla  
+52 555 321 9800



**Perú**  
Surco, Lima  
+51 1 719 4150



**South Africa**  
Boksburg, Gauteng  
+27-11-444-9160



**United Kingdom**  
Bedwas, Caerphilly  
+44-29-2086-8501



**United States**  
Erie, Pennsylvania  
+1-814-835-6000