

ERIEZ[®] ***xtreme*** **METAL DETECTOR**



MADE IN USA



Trust Eriez to protect your customers and brand image



Eriez' new **Xtreme**® Metal Detector is installed in the packaging plant of Smith's Hot Dogs. Smith's® is the official Hot Dog of the Pittsburgh Penguins.

Pittsburgh Penguins are a trademark of Lamix Group, LP.

The Xtreme® Metal Detector

All new from the ground up, Eriez' new **Xtreme®** Metal Detector sets the standard for "best in class" performance and offers the greatest dollar-for-dollar value of any detector on the market. This feature-rich, multi-frequency unit is designed to achieve the highest levels of sensitivity to detect small ferrous, non-ferrous and stainless steel metal contaminants in sanitary and non-sanitary environments.

Xtreme Sensitivity

The art of metal detection strikes a balance between absolute detection of all metal contaminants and elimination of false signals that slow down production. The new **Xtreme®** Metal Detector pushes that detection/productivity curve with the ability to detect 0.2mm spheres. As is the case with all metal detectors, it's critical to have your specific product tested to understand achievable results. This brochure will review factors that influence sensitivity on page six.

Best-in-Class Value

Combine the **Xtreme's** benchmark-setting sensitivities with its feature-packed controls in a high-pressure wash-down aperture head... all at the price of a mid-range detector, and you've got the best dollar-for-dollar value on the market today. In its base package, the metal detector offers a huge 7-inch easy-to-use touch screen interface, multiple preprogrammed languages, easy set-up and reporting, multiple USB and interface ports, remote access and the standard high-pressure wash down design. You cannot beat that value.



Xtreme® Construction

Information & Alarm Tower

Bright, clear LED beacons and adjustable horn provide multiple levels of visual and audible alerts based on the user-defined settings.

Sanitary Conveyor

The **Xtreme's** new hygienic conveyor made of continuously welded series 304 stainless steel can be stripped down quickly for a thorough cleaning to minimize costly downtime. Includes a wash-down drive, variable speed control, antistatic UHMW slider bed, food grade polypropylene belt, stop-belt reject and combination beacon/horn alarm, optional side guides and adjustable articulated sanitary foot pads or casters.

Data Access

Safe, protected access to a range of data ports provides remote communication transfers via Ethernet and USB. Access point is under the control/interface box.



Food-Grade Polypropylene Belt

Plastic chain, food-grade belts are easily removed and ideal for packaged foods.





Thick Polymer Aperture Design

The specially designed and machined thick polymer liner seals the internal coils, making the aperture head impenetrable during high-pressure wash down.

High-Pressure Wash Down Guard

The **Xtreme** MD is furnished with a PETG shield that is durable, scratch resistant, and used to protect the touch screen from physical damage and direct impact during wash down.

Multi-Frequency Technology

At the heart of the new **Xtreme** Metal Detector is an "industry best" multi-frequency machine able to detect the smallest contaminants regardless of the inspected product's characteristics.

State-of-the-Art Software

The all new **Xtreme[®]** Metal Detector Software provides automatic product setup with self-checking capabilities and calibration verification for simple start-up and operation. All functions, settings and logs are stored and easily accessed by the operator, supervisors or the factory via remote communications.

Stainless Steel Sanitary Construction

The metal detector and control are constructed from 304 stainless steel, with sanitary welds, making it an xtreme-ly durable head.

Single Point Junction Box

Customer's incoming power line is connected to one terminal block within the NEMA 4X enclosure for ease of installation.

Xtreme® Sensitivity & Control

Sensitivity

Metal detectors incorporate a balanced coil design housed in an aperture head that emits a set electronic signal. The signal is set at a frequency designed to “see” a product with a boundary, which is deemed within “normal range”. The boundary can be expanded or contracted based on product variation and user preference.

Any detection of a metallic object outside the normal boundary signals a metal detection event. A wide range of variables can affect a metal detector's sensitivity. Some of these include:

Known variables affecting metal detectability

- Product temperature
- Product characteristics like moisture and salt content
- Aperture opening size
- Packaging material – foil or recycled paper
- Packaging labels or markings

Unknown variables affecting metal detectability

- Size, type and orientation of tramp metal
- Excessive vibration/improper installation
- Adverse electromagnetic interference

To help illustrate this, we've provided a few examples of different foods and metal contaminants and their potential effects on a metal detector. The most detectable tramp metal would be a cube shaped fragment of steel in processed or packaged dry rice; while a product like raw, saltwater fish with a thin stainless steel sliver embedded in a vertical orientation will be more difficult to detect.

These variables need to be accounted for when setting up products.



The new **Xtreme®** Metal Detector pushes the detection/productivity curve with the ability to detect 0.2mm spheres.



Xtreme Software

In addition to its hygienic design and rugged construction, the Xtreme® Metal Detector offers easy-to-use set up, operation and reporting... all from a large, well-designed graphic interface.

Set-up and Operation

While the Xtreme® Metal Detector ships with factory pre-set setting for your products (based on actual testing and provided application data), adding new products or changing parameters is simple. The following are a few standard features:

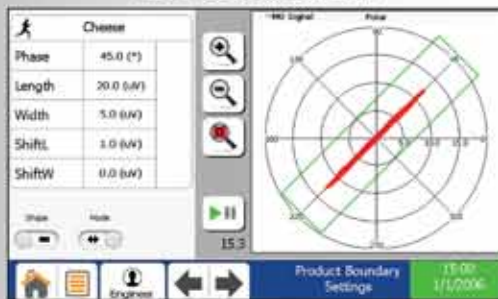
- Four password protected levels of access
- Auto set-up and product learning
- Easily change product boundaries/rejection
- One touch log reporting
- Eight fields of data recorded on a large hard drive
- Multiple communication ports – USB and Ethernet
- Log/tracks/rejects, on/off's, faults, warnings, product and setting changes, operator changes and much more



Product setup screen



Home screen



Product boundary screen



Event log/reject log



Metal detected breaks the product boundary

The Xtreme® Metal Detector Quick Ship Program

This Quick Ship program is designed to match stocked conveyors and **Xtreme®** Metal Detector apertures to meet a one to two week delivery. Eriez stocks four stainless steel, wash-down conveyor widths and (25) metal detector apertures for quick assembly and delivery. The variable speed conveyors are available in 6, 12, 18 and 24-inch widths with a food-grade polypropylene, plastic chain belt.

- 6 x 60-inch belt with 4 to 12-inch high apertures
- 12 x 60-inch belt with 6 to 14-inch high apertures
- 18 x 72-inch belt with 6 to 20-inch high apertures
- 24 x 84-inch belt with 8 to 20-inch high apertures

Eriez **Xtreme®** Metal Detectors offer the highest level of protection against metal contamination, are competitively priced, and proudly designed and manufactured in the United States. These systems are ideal for customers in the food, textile, pharmaceutical, plastics, rubber, chemical and many other industries.

Xtreme Metal Detector

25 sizes ranging from 4 to 20-inch openings

Xtreme Metal Detector Conveyor

4 sizes – 6, 12, 18 and 24-inch wide belts

Custom size metal detectors and conveyors also available. Contact Eriez today to learn more!



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