

Metal Detection for Plastic Regrind Applications

Detects Ferrous,
Non-ferrous &
Stainless Steel

Prevent Damage
to Shredders,
Granulators,
Grinders & Other
Processing
Equipment



 **Free
Product
Testing**

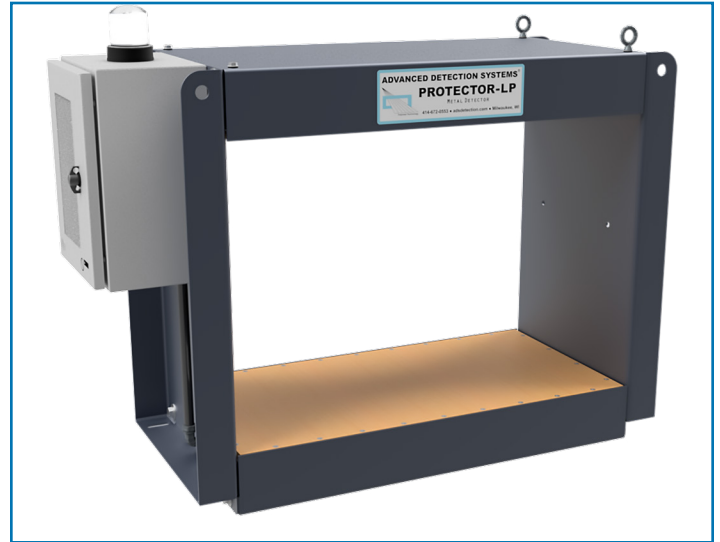
**Guaranteed
Detection
Levels**

SurroundScan Systems



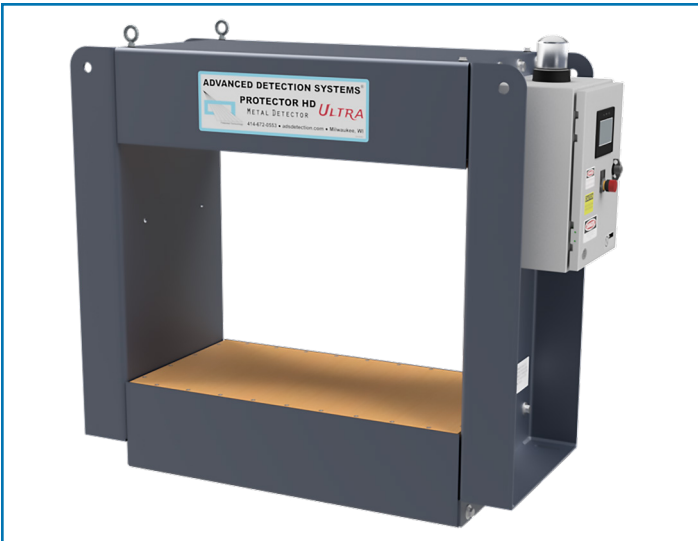
SurroundScan Protector HD

The Protector HD offers unique heavy-duty construction for consistent performance in harsh conditions. The Protector HD ensures product purity and defends processing equipment preventing costly downtime.



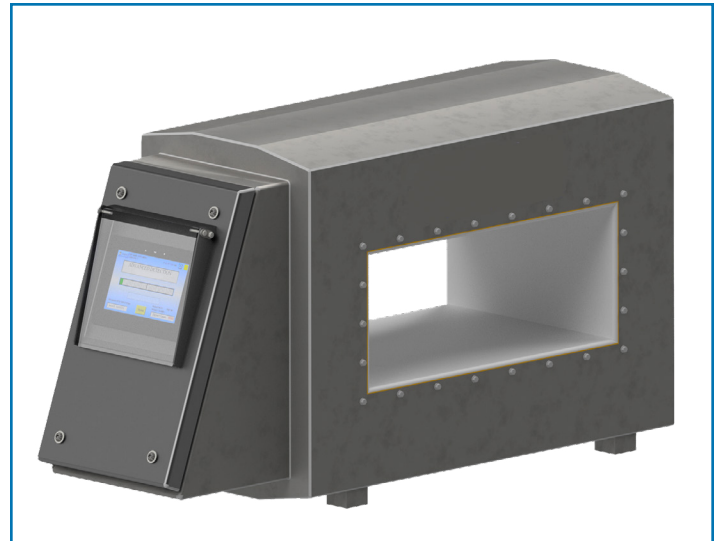
SurroundScan Protector LP

All the operating features of the standard HD with a 45% smaller coil enclosure and 40% weight reduction. This simplifies installation on conveyor frames where clearance between the conveyor belt and frame is limited.



SurroundScan Protector HD Ultra

The Protector HD Ultra has up to 2x better detection levels compared to the standard Protector HD. For when maintaining product purity and detection of safety hazards like lithium batteries is paramount.



SurroundScan Defender

Precision state of the art detection levels. The Defender is ideal for extruded rubber and other applications where small millimeter scale metal contaminants must be found.



Get Detection Optimized for Your Product

Have your product tested in our factory lab, free of charge. The results are used to optimize your ProScan's® detection levels for your specific product. We stand by this method with a written guarantee.

www.adsdetection.com (414)672-0553

SurroundScan Systems

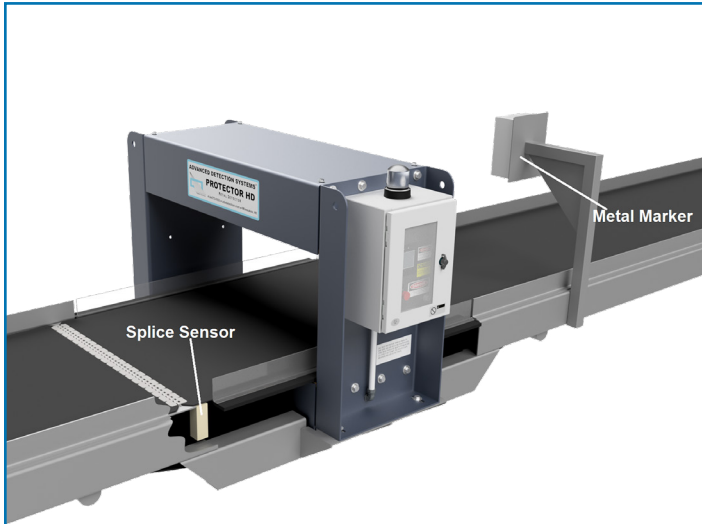
Protector Series Features

- ◇ Advanced Detection Systems' staff members are metal detector experts. We're focused on providing superior metal detection for ferrous, non-ferrous, and stainless steel through patented technologies and engineering.
- ◇ Heavy duty steel construction protects the coils allowing the Protector to remain in constant service for years, unlike light duty detectors with components that are prone to damage.
- ◇ Acculearn Technology – Our detectors learn your products characteristics in as few as two minutes. This allows the detector to automatically set detection levels that recognize the difference between metal that could damage processing equipment and non-harmful metal that can be ignored.
- ◇ Product Monitor – provides real time signal value for your product and the tramp metal that must be detected to prevent damage to processing equipment. The Product Monitor can also be set to simultaneously ignore metal that is not harmful to equipment.
- ◇ Password Protected Touchscreen – Provides intuitive guidance for using the unique Acculearn and product monitor features and simplified operation of the Protector's splice sensor and metal marking accessories.
- ◇ Splice sensor and metal marking accessories complete the Protector's system for detecting and locating metal contaminants when spliced conveyor belts are being used. (not for use with HD Ultra)
- ◇ Digitally auto-balanced coil technology and dual channel operation maintain perfect coil balance and optimum performance in the presence of conductive products while eliminating the cost of service technician plant visits to re-balance the metal detector.
- ◇ State of the art power supply and RF noise protection eliminates nuisance trips caused by line spikes and radiated noise.
- ◇ Programmable contacts for full PLC integration and reject device control of automated divert gates or belt plow systems. With this the metal detector is no longer an outlier in your process that requires special, individual attention.
- ◇ Removable end plates facilitates installation on existing conveyor frames without having to remove the belt.
- ◇ Customized metal detector systems including unit construction, proprietary software and electronics are designed to the customer's exact application needs.

Defender Series Features

- ◇ Advanced Detection Systems' staff members are metal detector experts. We're focused on providing superior metal detection through patented technologies and free product testing that guarantees our metal detector will meet your sensitivity requirements.
- ◇ Anti-Vibration Technology – measures vibration and compensates for it's effect enhancing the ProScan's performance. This technology eliminates product waste associated with nuisance detects caused by vibration. This feature also improves sensitivity performance due to reduced need to accommodate vibration and removes the time and money required to correct those vibration sources.
- ◇ Acculearn Technology – Our detectors learn your products characteristics, in as few as two passes, eliminating false trips caused by product variability.
- ◇ Patented coil auto-balance technology – Maintains perfect coil balance, providing optimal consistent performance.
- ◇ Adjustable RF protection – compensates for radiated noise, such as that from variable frequency drives and power fluctuations.
- ◇ Touchscreen – Intuitive software and controls are easy to navigate. Make quick changes without disrupting production.
- ◇ Administrative Login Level – Twenty administrator assigned user names, passcodes and login levels; User name, time and date is stamped to each event.
- ◇ Running list of recent detection history visible from menu or web and downloadable as an excel document.
- ◇ 3 separate reject timings available providing accurate "deploy and actuate" times for different size products.
- ◇ Defender's washdown enclosure design is the best in the industry! Our unique approach to the enclosure construction is preferred by meat and seafood processors because it prevents high pressure water from getting into the coil area, eliminating costly repairs.
- ◇ Customized metal detector systems including unit construction, proprietary software and electronics are designed to the customer's exact application needs.
- ◇ Engineering, manufacturing and service functions are located in one facility – our factory/lab in Milwaukee, WI USA, which translates into quick response and expert support for all your metal detection needs.

Optional Splice Sensor & Metal Marker



Remote Control Cabinet



Core Features For all Models



Product Monitor

You get real time signal values for your product and the ferrous, non-ferrous and stainless-steel metal that must be detected.



Patented Vibration Technology

Improves performance and reliability when used in a vibration heavy environment.



Guaranteed Sensitivity

We test your product and calibrate our detectors to your product's specific needs and guarantee sensitivity.



Patented Auto-Balance

The ProScan Max® III's auto-balance software maintains perfect coil balance and optimum performance, eliminating the cost of a service technician plant visit to re-balance the metal detector.



Acculearn™ Technology

Our detectors quickly learn your products characteristics, in as few as two minutes, eliminating false trips caused by product variability.



Custom Built

Our metal detectors are individually designed by our engineering staff and manufactured to your exact specifications.



Heavy-Duty Construction

The SurroundScan metal detector product category reflects our history of manufacturing robust, reliable equipment.

To learn more, please contact us:

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