

# Metal Detection for Wood & Biomass Processing



**Upstream Feeding Equipment Armed with Metal Detection will Defend Your Processing Equipment and Ensure Product Purity.**

- ◇ The Protector metal detector can be used to detect Non-Ferrous and Ferrous metal missed by the magnet.
- ◇ If metal is rare but catastrophic a metal detector can be an economical and easy to install alternative to an overhead magnet.
- ◇ The Protector can be used with an automatic diverter or configured to stop the feeder or conveyor upon detection of metal



# SurroundScan Protector



## SurroundScan Protector Series for Wood Processing Applications

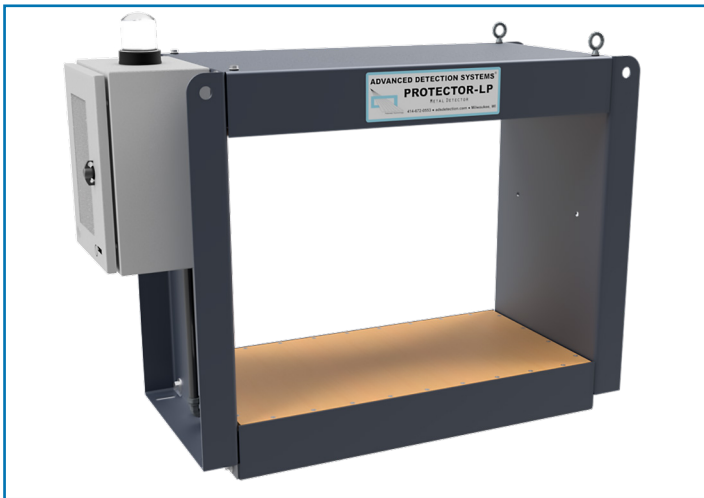
Your equipment is designed to cut, shred and process wood – not metal. The SurroundScan Protector HD metal detector will detect metal, alert workers and even shut down equipment before it can be damaged. The Protector HD's steel construction and NEMA 4 electronics enclosure is designed for outdoor use and the removable end plate facilitates easy installation into existing processing lines.

## Optional Remote Control Cabinet



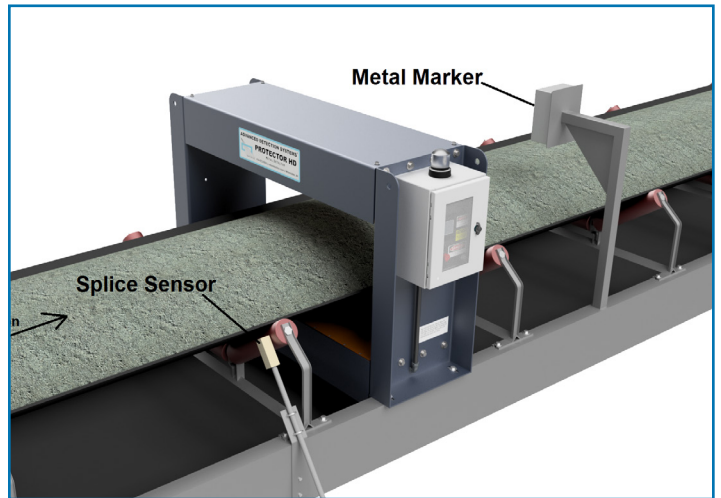
## SurroundScan Protector HD

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.



## Optional Splice Sensor & Metal Marker

Splice sensor and metal marking accessories complete the Protector's system for detecting and locating tramp metal when spliced conveyor belts are being used.



# SurroundScan Protector

## 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 in tough sawmill, wood processing or logging conditions.
  - ◇ 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.
  - ◇ 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.
- To learn more, please contact us:  
Phone: 414-672-0553  
Email: [sales@adsdetection.com](mailto:sales@adsdetection.com)

## 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.



### Acculearn™ Technology

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



### Patented Vibration Technology

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



### Custom Built

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



### Guaranteed Sensitivity

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



### Heavy-Duty Construction

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



# ADVANCED DETECTION SYSTEMS

## Aftermarket Support with Customer Service Focus

Advanced Detection Systems outstanding metal detector service is a team effort. Our sales, engineering and service staff experts coordinate our support to meet your specific service needs.

### PROVIDE CUSTOMER FOCUSED SERVICE

Over the years, Advanced Detection Systems has developed a variety of services and training programs. These are designed to help our customers stay current in the best practice methods of use for their metal detectors, optimizing the value of their metal detection investment. Your purchase of a metal detector from Advanced Detection Systems includes expert technical support for the life of the equipment. This includes installation, start-up and the testing needs for your metal detection system. Some of the services we offer are: Verification Services for any make/model metal detector, On-site Field Service, Metal Detector Training, Software Upgrades and FREE Product Testing with guaranteed detection levels. Service is provided from our service technicians, factory sales and local representatives that are HACCP (Hazard Analysis Critical Control Point) certified. Our engineering, factory sales staff and local manufacturer's reps are also on standby to assist our customers.

### METAL DETECTOR TRAINING

We recognize the importance of quality training for our customers to ensure optimal use of their metal detector. Our training programs are conducted by certified factory service technicians and local representatives on-site or if preferred, online for our customer's convenience. Advanced Detection Systems can also customize any training program to meet your specific needs. Our training programs can include information on: Metal Detector 101 - How They Work, Security Features - Protection from Unauthorized Tampering, supervisory personnel setup and clearances, electrical power supply

and operation of the metal detector, accessing and managing data settings/change, Product Monitor, use of reject devices and settings, touchscreen calibration and menu options and any specific topic per your application or industry.

### REPLACEMENT PARTS

Advanced Detection Systems offers replacement parts and spare parts lists for your equipment. Our factory trained service technicians, engineers and sales staff are experts on our metal detection systems. Metal detectors are a Critical Control Point and therefore must remain in service. Ask us about developing a spares part list for your specific metal detection system to prevent downtime that can be expensive and disastrous. Our staff is available to assist in identifying parts needed for your metal detector and we can easily look up the information in our system. Many parts are currently in stock and available for same day shipment, including electronic replacement parts that are unique to your specific metal detection system.

### FIELD SERVICE

We have responsive HACCP (Hazard Analysis Critical Control Point) certified service technicians and local representatives at your service. We offer a variety of plant level metal detector services that will ensure consistent metal detector performance and employee familiarity with the operation of your metal detection systems, such as: on-site trouble shooting for metal detectors, conveyors and reject devices, metal detector start-up and employee training, verification services, metal detector software upgrades and metal detector testing.



### Need Magnetic Metal Separation? Stationary Overhead Electromagnet

Dings stationary electromagnets offer heavy duty construction and unsurpassed magnetic performance. Dings unique electromagnetic coil design has an industry leading 20-Year Warranty against coil burnout and eliminates the need for a cooling oil expansion tank.

Dings stationary model has no self-cleaning belt sag, allowing for a lower suspension height. The decrease in suspension height increases separation performance. This can make the use of a smaller, more economical magnet a possibility.



Advanced Detection Systems  
is a Sister Company of  
Dings Co. Magnetic Group.