



## SurroundScan® Protector HD

### Aggregate Industry

- ◆ Expert technical support from our factory
- ◆ State of the art detection levels for ferrous, non-ferrous, and stainless steel.
- ◆ Removable end plate facilitates easy installation, no belt removal required.
- ◆ Robust and reliable metal detector
- ◆ Engineered to withstand tough applications
- ◆ Protects processing equipment



### SurroundScan Protector HD

The Protector HD ensures product purity, detects safety hazards, defends processing equipment, and prevents costly downtime.

### Protector HD Features

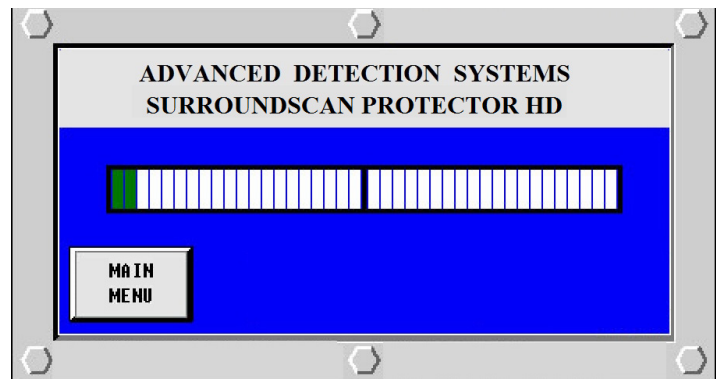
- ◆ Autolearn technology easily sets appropriate sensitivity.
- ◆ Adjustable RF protection helps compensate for environmental noise and power fluctuations.
- ◆ Digital control and processing with two channel detection.

### More Information

Advanced Detection Systems has been identifying and meeting unique metal detection needs for over 30 Years.

All equipment engineered and manufactured in Milwaukee, WI USA, which lets us provide a “one stop shop” for all your metal detection needs.

The Protector HD ensures product purity, defends processing equipment and prevents costly downtime.



SurroundScan® Protector HD  
Password Protected Touchscreen





### 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.



### Acculearn™ Technology

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



### Custom Built

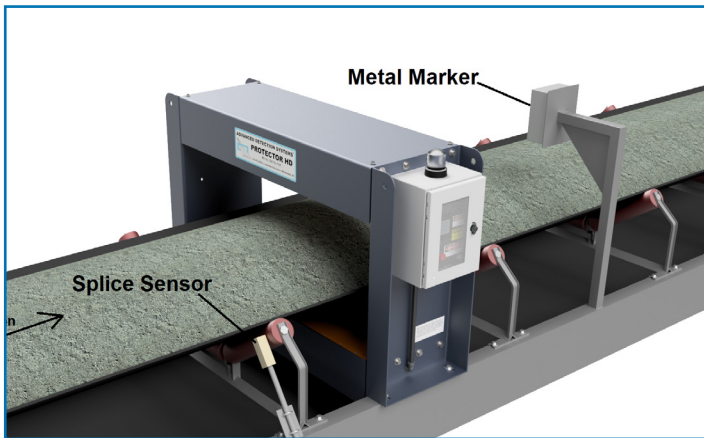
Our metal detectors are individually designed by our engineering staff and manufactured to your exact specifications.



### Heavy-Duty Construction

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

## Optional Splice Sensor & Metal Marker



## Remote Control Cabinet



Dings Overhead Stationary Electromagnet



## **Dings magnetic group** an Advanced Detection Systems sister company

## Magnetic Separators from Dings Co. Magnetic Group

**Dings stationary electromagnet** is used in applications when separation of ferrous metal is critical but not continuous. Ferrous metal collected by the stationary electromagnet is removed as necessary by cutting power to the magnet releasing the ferrous material.



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## Get Detection Optimized for Your Process

Have your targeted contaminants professionally tested for in our lab, free of charge. The results are used to optimize your Protector's® detection levels for your material stream's specific characteristics. We stand by this method with a written guarantee.



## Protector for Aggregate & Mining Quote Request

[www.adsdetection.com](http://www.adsdetection.com)  
(414) 672-0553

Company: \_\_\_\_\_ Quote Required Date: \_\_\_\_\_  
 Address: \_\_\_\_\_ Contact Person: \_\_\_\_\_  
 City, St ZIP: \_\_\_\_\_ Contact Email: \_\_\_\_\_  
 Phone/Cell: \_\_\_\_\_ Date Equipment Required by: \_\_\_\_\_  
 Email Completed RFQ to: [sales@adsdetection.com](mailto:sales@adsdetection.com)

### Application Information

Material Being Conveyed: \_\_\_\_\_

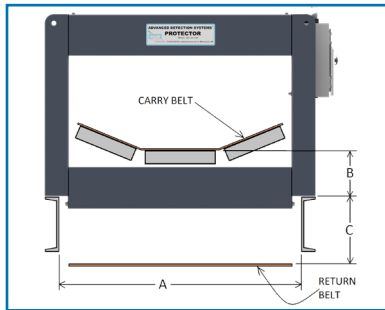
Material Data: Burden Depth: \_\_\_\_\_ cm Lump Size: \_\_\_\_\_ cm Bulk Density: \_\_\_\_\_ kg/m<sup>3</sup>

Conveyor Data: Belt Width: \_\_\_\_\_ cm Belt Speed: \_\_\_\_\_ mpm  
 Idler Spacing: \_\_\_\_\_ cm Note: 48" (1.22m) metal free zone and  
 \_\_\_\_\_ mm 48" (1.22m) minimum idler spacing

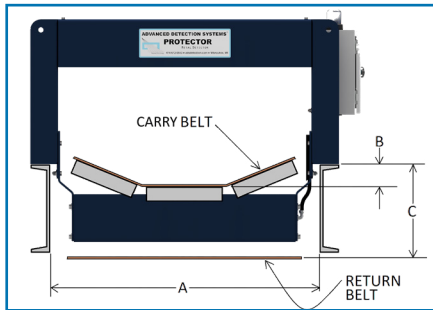
Troughing Angle: 0° 20° 35° 45°

Detection Level Required: Ferrous: \_\_\_\_\_ cm Non-Ferrous: \_\_\_\_\_ cm  
 Stainless Steel: \_\_\_\_\_ cm

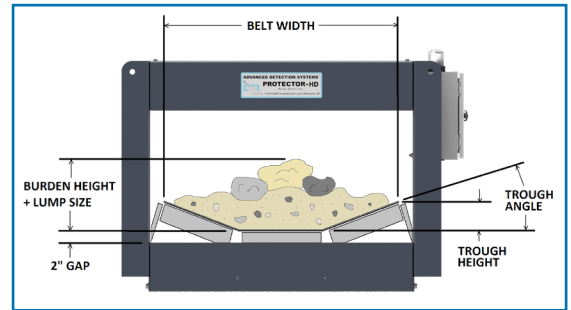
### Metal Detector Selection



Standard Mount: Idlers positioned above the conveyor frame



Inboard Mount: Idlers positioned inside the conveyor frame



- A= The Dimension inside the Conveyor Frame. A= \_\_\_\_\_ cm  
 B= The Dimension From the Bottom of the Conveyor Carry Belt to the Top of the Conveyor Frame. B= \_\_\_\_\_ cm  
 C= The Dimension From the Top of the Conveyor Frame to the Top of the Return Belt. C= \_\_\_\_\_ cm

### Metal Detector Accessories

Belt Splice Sensor

Remote Control Cabinet

Remote Control Cabinet Heater

Flag Drop Metal Marker

25 ft (7.62 m) Cable

Note: A control cabinet heater is required for the unit if the ambient temperature falls below 40° F (4.44°C) during operation.

With Support Stand

50 ft (15.24 m) Cable

Without Support Stand