The Next Evolution of Metal Detection
The Next Evolution of Metal Detection

INTERCEPTOR

Metal Detector
The Next Evolution of Metal Detection

**INTERCEPTOR**
Metal Detector

- Simultaneous Multi-Frequency Operation
- Broad Spectrum Frequency Transmission
- ARM Processors: Multiple Channel Signal Processing
- 100% Detection Sensitivity Increase
- Noise Immunity Structure
- Since 2009
The Next Evolution of Metal Detection

Challenging “Wet” Applications

- Meat, Cheese, Dairy, Bread/Bakery, Fish, Salads
- Metalized Film Packaged Products
Agenda:

Two Case Studies
1. Retail Sliced Cheese Packs
2. Retail Deli Meat Packs

The Interceptor Solution:
1. Increased productivity
2. Reduced Costs
3. Minimized False Rejects
4. Lowered Recall Risk
Case Study #1

Retail Sliced Cheese Packs

• Slice on Slice - Multiple Varieties
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4"

6"

12"

6"

14"
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Ferrous 2.0 mm (Volume 4.189 mm³)
Non-Ferrous 3.0 mm (Volume 14.137 mm³)
Non-Magnetic Stainless Steel 4.5 mm (Volume 47.713 mm³)
Product characteristics changed after packaging
Line Stoppages result in high rejection rate
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INTERCEPTOR
Simultaneous Multiple Frequency

High frequency transmitter to improve the stainless steel performance.

Ultra low frequency transmitter to address the ferrous performance.
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- Ferrous 1.2 mm (Volume 0.9 mm³)
- Non-Ferrous 1.5 mm (Volume 1.767 mm³)
- Non-Magnetic Stainless Steel 2.0 mm (Volume 4.189 mm³)
- Immune to Product characteristics changes

Improvement:
- 400% Volume Improvement
- 700% Volume Improvement
- 1,000% Volume Improvement
Non-Magnetic Stainless Steel Detectable Volume

Sphere: 4.5 mm
Volume: 47.713 mm³

Sphere: 2.0 mm
Volume: 4.189 mm³

Volume Detection Improvement = 1,000%
Case Study #2

Retail Sliced Meat Packs

• Multiple Varieties (Ham, Beef, Turkey, etc)
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2” H

8” W

10” L

6”

14”
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- Ferrous 2.0 mm (Volume 4.189 mm$^3$)
- Non-Ferrous 2.5 mm (Volume 8.181 mm$^3$)
- Non-Magnetic Stainless Steel 3.5 mm (Volume 22.449 mm$^3$)
- Multiple Flavors and Recipes
- Product Conductivity Highly Variable
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**INTERCEPTOR**
Simultaneous Multiple Frequency

- **Medium Frequency Transmitter** to Address the More Conductive Products
- **Low Frequency Transmitter** for the Low Conductivity Products
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Ferrous 1.0 mm
(Volume 0.524 mm³)

Non-Ferrous 1.2 mm
(Volume 0.9 mm³)

Non-Magnetic Stainless Steel
1.5 mm (Volume 1.767 mm³)

Immune to Product characteristics changes

800% Volume Improvement
900% Volume Improvement
1,200% Volume Improvement
Non-Magnetic Stainless Steel Detectable Volume

Sphere: 3.5 mm
Volume: 22.449 mm³

Sphere: 1.5 mm
Volume: 1.767 mm³

Volume Detection Improvement = 1,200%
INTERCEPTOR Metal Detector

- Cost is slightly more than standard Fortress metal detector
- Cost of ownership much lower than x-ray
- Stainless steel sensitivity comparable to x-ray in many applications
- Never Obsolete Commitment: Parts and Support always available
- Custom manufactured to suit application
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INTERCEPTOR Metal Detector

AVAILABLE NOW

Contact us to find out if the Interceptor is the right solution for your application.

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www.fortresstechnology.com/products/interceptor-metal-detector/