

# FORTRESS VERTeX

## Vertex Metal Detector



### Fortress PHANTOM Series Vertex Metal Detector

Simple  
Operation

Outstanding  
Reliability

Exceptional  
Performance

#### The PHANTOM Series Advantage

The unique Fortress Phantom Vertex Metal Detector utilizes the latest Digital Signal Processing technology to detect and reject ferrous and non-ferrous metals, including stainless steel. With the highest processing power, Phantom systems are renowned for their superior speed, accuracy and ease-of-use.

#### Applications

Snacks, Frozen Vegetables,  
Cereals, Powders



#### Overview

Ideal for inline processing applications where space is limited, the ultra-slim Vertex detects metal contaminants in freefalling product prior to final packaging. Typically situated between a Multihead Weigher and a Vertical Form Fill Seal machine, product is gravity fed through the detector's aperture before being sealed in a pouch by a bagger.

Vertex is the best-suited solution for applications where packaging is metallic or too large for standard detectors. Using Core DSP technology, the system detects the smallest metal contaminants including pieces of wire, shavings and swarf.

Vertex includes a mountable remote control box that provides all the intelligence and first-rate functionality of Phantom digital technology. Additionally, custom designed support frames are available, allowing for easy installation.

#### Key Technologies

**Core DSP**  
Unparalleled Precision

**UltraSense**  
Ultra Sensitive Detection

**AutoTest**  
Self Diagnostics Testing

**AutoCal**  
System Set-Up in Seconds

## ADVANCED PHANTOM FEATURES

<b>Core DSP</b>	Digital Signal Processing (DSP) technology provides unparalleled precision, speed, and detection results
<b>UltraSense</b>	Maintains high sensitivity levels to detect the smallest metal contaminants
<b>AutoTest</b>	Auto Test ensures consistent performance and saves costs
<b>AutoCal</b>	Automatic Calibration at the touch of a button
<b>Intuitive User Interface</b>	Provides dedicated shortcut keys
<b>Flash RAM</b>	Flash Memory technology prevents information loss
<b>Modular Design</b>	Fewer product parts results in greater reliability

## CONTROL OPTIONS

<b>Remote Mounting</b>	Display panel terminal can be mounted remotely
<b>Multiple Detector Control</b>	One display panel can operate a number of detectors

## VERTEX OPTIONS

<b>Customized support frame</b>	For easy installation
<b>Paint Finish</b>	Metallic Grey / White
<b>Mounting</b>	Fixed / Pivot / Slide Out
<b>Compatible Baggers &amp; Weighers</b>	Industry standard mounting and integration to all Multihead Weighers and Vertical Form Fill Seal machines
<b>System Integration</b>	Bagger touch screen integration
<b>Reject</b>	Output interlocks to bagger

## SPECIFICATIONS

<b>Construction</b>	Aluminum painted case* * stainless steel available upon request
<b>Aperture sizes</b>	6.5" / 8.5" (165 mm / 216 mm)
<b>Remote Control</b>	10 ft (3 m) cable included with remote as standard
<b>Remote Control Range</b>	Up to 4000 ft / 1,200 m
<b>Electrical</b>	90-250v single phase, 1 amp
<b>Rating</b>	Nema 4 / IP65
<b>Communications</b>	RS485, Optional: Ethernet / Wireless, via CONTACT Software



Make your Phantom metal detector a Critical Control Point with CONTACT Communication Software

**Fortress Technology Inc.**  
51 Grand Marshall Dr,  
Toronto, Ontario  
M1B 5N6, Canada  
Tel: 1-888-220-8737  
sales@fortresstechnology.com

**Fortress Technology Europe**  
7/9 Beaumont Business Ctr.  
Beaumont Close, Banbury  
OX16 1TN UK  
Tel: +44 (0) 1295 256 266  
info@fortresstechnology.co.uk