# RAPTOR Combination System

The Raptor is a highly accurate, fully integrated checkweighing and metal detection combination system, specifically designed for high care food production environments.

The Raptor is employed to verify the weight and inspect for metal contaminants of each product and reject non-conforming packs. The system adheres to the highest care/food-grade engineering standards and features an ergonomic design that enables comfortable operator use.

Safely, reliably, and accurately inspect 100% of your products at any stage in your process using Raptor. Multiple end of line inspection processes can now be carried out, and controlled, within one highly compact system, when a Raptor checkweigher is paired with an industry leading Stealth or Interceptor metal detector.
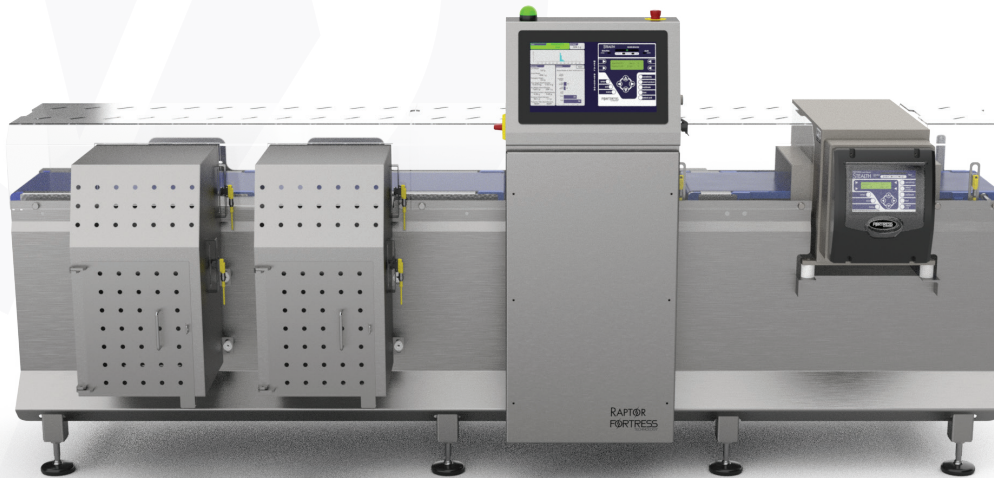
SIMPLE AND ROBUST
Heavy duty IP65 grade equipment. Robust, precision made, lift-out conveyors. No tools. No fuss.

EFFICIENT OUT OF TOLERANCE REJECTION
Kicker, air-blast and other reject configurations accurately removes metal contaminants and reject out of tolerance weight products from production flow - minimizing giveaway and preserving brand integrity.

EASY TO USE
Simple HMI interface ensures user-friendly operation and enhances process efficiencies. Latest generation capacitive industrial touchscreen displays important data and reduces training time.

SANITARY DESIGN
Hygienic design supports sanitation processes with easy clean, sloped surfaces to promote water run off and speed up drying time.

LOW MAINTENANCE
Intelligent conveyor design allows for complete removal and disassembly of conveyor components for maintenance access and cleaning in seconds.

APPLICATIONS

Bakery · Confectionery · Chocolate Bars · Packaged Meats · Packaged products · Nutritional Bars

STANDARD SIZES AND RANGES:

Belt Widths:	100mm, 200mm, 300mm, 400mm
Line Height:	800mm +/-50mm
Weighing Capacity:	50g - 8kg
Product Lengths:	Up to 430mm (standard machine)

FORTRESS® TECHNOLOGY

RAPTOR
Combination System
Specifications & Options

SYSTEM OPTIONS & SPECIFICATIONS:

Optional*

|	
HMI	15.6" color capacitive touchscreen display | 16:9 Aspect Ratio | Secure remote web-browser connection
MECHANICAL	Continuous duty DC brushless motors | Sealed for life bearings | Tooless removable conveyors for ease of cleaning
CONSTRUCTION	Stainless steel plate design | High accuracy, high speed, single point, precision loadcells | IP65 grade washdown protection | Sanitary-design threadless feet*
MACHINE OPERATION	Menu driven from single operator interface | User-friendly high contrast layout | 360 degree visible status beacon
STATISTICAL DATA	Comprehensive Statistics Set (Audit) generated for download by USB or accessible through Contact 4.0 interface to enhance traceability and security | Industry 4.0 live collection of data via network adapters*
AUTOMATIC REJECT OPTIONS	Kicker | Air-blast | Overhead Sweep | Diverter Paddle | Modular reject stations
REJECT INTEGRITY	In-feed (weigh) sensor |Reject Confirmation Sensor | Lockable stainless-steel collection bin* | Reject Return Sensor* | Exit eye/Back up sensor* | Bin full indicator*
MANAGEMENT CONTROL	500 products | Self diagnostics status messaging| 4 level configurable user access with 25 individual users | Contact 4.0 data logging software compatible* | Secure RFID card user access*
SAFETY	Standard Category 3 Safety Circuit | Air-Dump | Full System lift off guarding (Guarding interlocked around physical hazards) | End user ability to integrate into safety circuit
LINE INTEGRATION	Upstream & Downstream control | Trend feedback to filler to minimize product giveaway | Ethernet/IP* | OPC UA*
METAL DETECTION	Fortress Stealth or Interceptor models available in standard or custom sizes and finishes.

Industry 4.0 Networking and Integration:

Connect to Contact 4.0 for in depth, turn-key data logging and reporting across an entire suite of networked Fortress inspection machines. Optional communication features allow for automatic and ad hoc generation of batch reporting across multiple machines simultaneously, and are accessible from a single interface. Reports include all machine events such as:

► Parameter changes
► Log-ins
► Fault status
► Total production statistics
► Reject counts
► Check weights

These secured reports ensure clarity and traceability of all machine events and may be generated automatically or on demand and forwarded to individual users.

Data Integration

The Raptor Combination system seamlessly integrates into existing IT and factory control systems. Collect statistical data and the status of each machine, or control their operation via optional OPC UA or Ethernet/IP adapters.
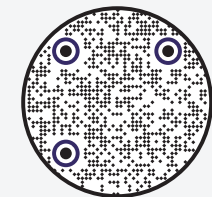
LEARN MORE ABOUT THE RAPTOR COMBINATION SYSTEM ONLINE

Simple Operation.   Outstanding Reliability.   Exceptional Performance.

FORTRESS®
TECHNOLOGY