



# CONVEYOR INSPECTION SYSTEMS

INTEGRATED SYSTEMS ON THE CONVEYOR BELT



**THS/FBV** VERTICAL-ORIENTED PRODUCTS INSPECTION



**THS/MBHD** HEAVY PRODUCTS INSPECTION



**THS/MBB** MODULAR CONVEYOR BELT



HEAT AND CONTROL

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Quality Control at its finest

**CEIA THS 21 Conveyor Inspection Systems** satisfy the most stringent requirements for functionality, compact construction, accuracy and reliability of response against accidental metal contamination in food products.

## KEY FEATURES

- **CONVEYOR BELT INTEGRATED** with Metal Detector and ejection system
- **FULL COMPLIANCE** with **HACCP** criteria
- **DETECTION** and **EJECTION** of magnetic, non-magnetic and stainless steel metals contaminants
- **AUTOMATIC LEARNING & TRACKING** of product effect
- **DIGITALLY-ADJUSTABLE BELT SPEED**
- **STRUCTURE** and **COMPONENTS IN AISI 316L** and **FOOD-COMPATIBLE PLASTIC PARTS (EU, FDA compliant)**
- **MULTIPLE EJECTION SYSTEMS AVAILABLE:** belt stop, air blast, pusher arm and retractable
- **MAXIMUM FLEXIBILITY:** all components are reversible

## MULTI-SPECTRUM TECHNOLOGY

**EXCLUSIVELY DEVELOPED BY CEIA**, this is a **unique metal detection technology that both optimizes sensitivity to all metal contaminants and minimizes product effect** in a very wide range of possible products.

By recognizing the different frequency response of conductive products and metals, this **innovative technology cancels product effect and maintains high performance levels** for all types of metal contaminants, both magnetic and non-magnetic.

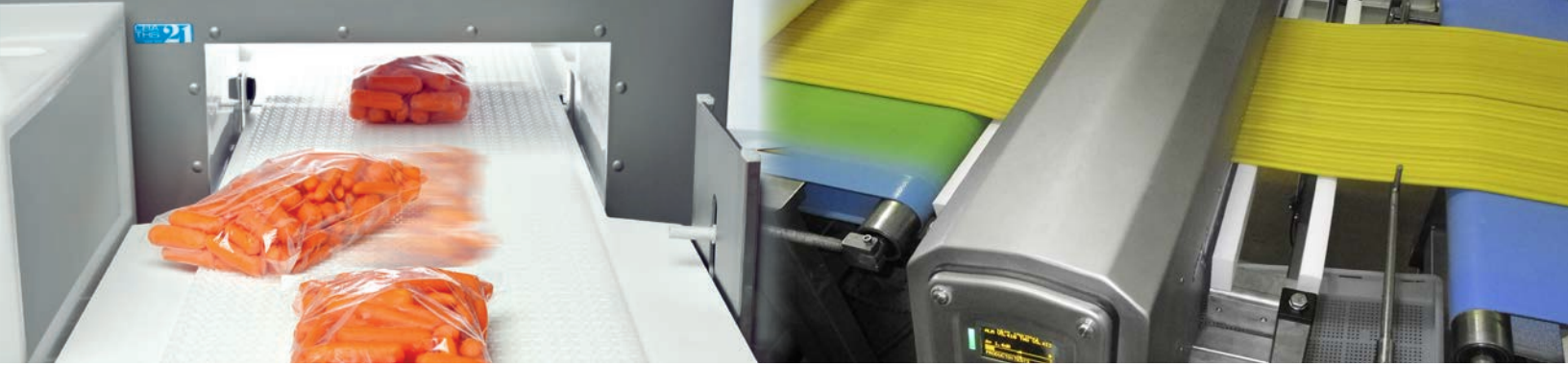
## EXCLUSIVE AUTO-LEARN SYSTEM

- ✓ The **AUTO-LEARN** system for food products provides **simultaneous maximum sensitivity to all metals starting from a single learning transit**.
- ✓ The system allows **optimization of the detection sensitivity to all metals with the maximum speed and precision**, equivalent to hundreds of conventional learning transits: these results in levels of precision and efficiency have never been obtained before.
- ✓ For products with changing or varying product signal after autolearn, the **THS/21 Series includes an advanced autolearn function** that runs in the background, to capture this product signal during normal production while still detecting metal. When the recording is ended, the operator has the option to analyze the data immediately, or wait until a later time when the line is stopped so as not to interrupt production.
- ✓ **The data that was added during the background autolearn is analyzed**, along with the original autolearn data, and the detection parameters are modified in order to also cancel the varying product signal.

## FULL COMPLIANCE WITH HACCP CRITERIA

- Structure and components in **AISI 316L** and plastics **EU, FDA** compliant
- Superior **washdown construction**
- **Certified** test samples

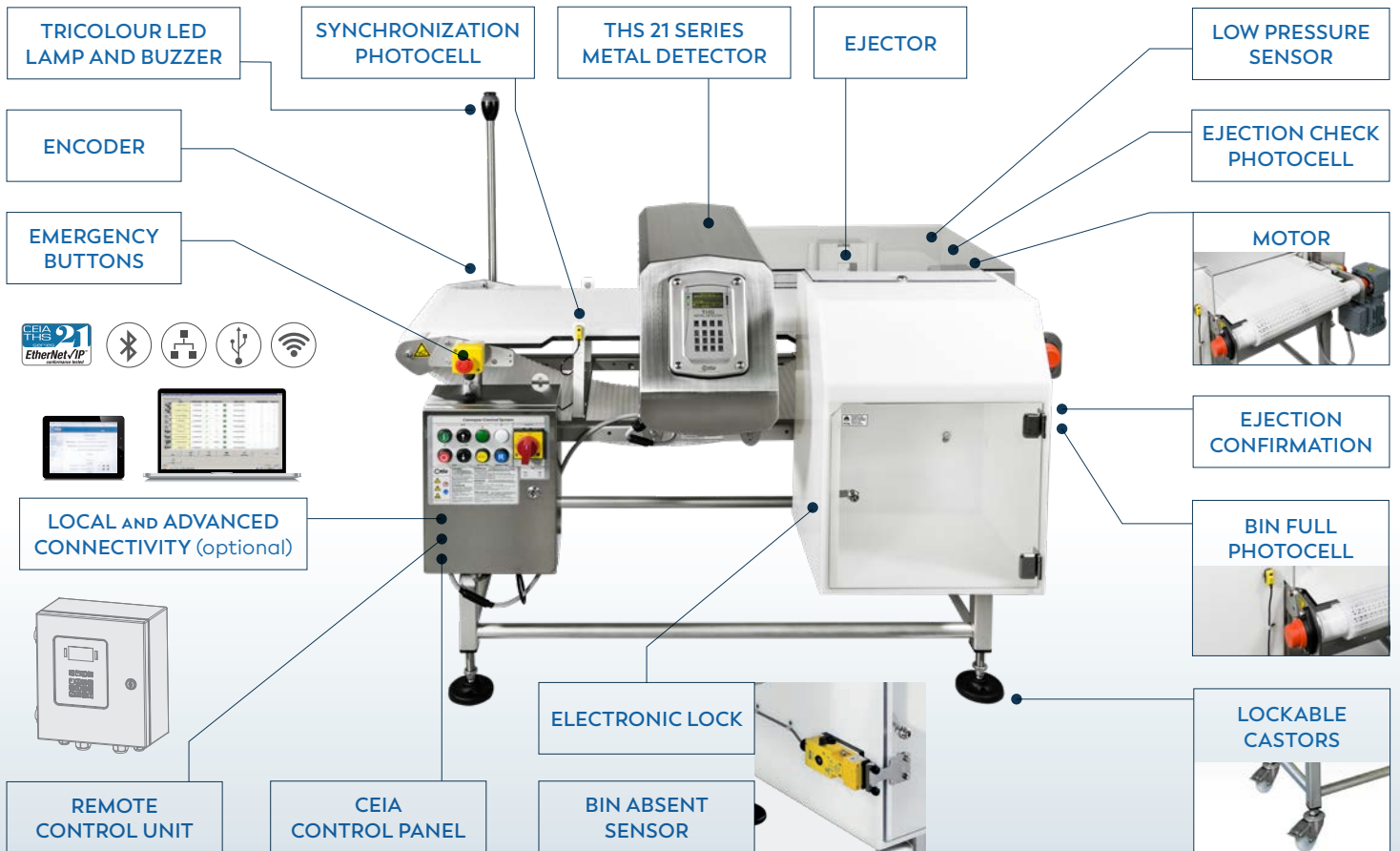




## UNEQUALLED INTEGRATED I/O AND COMMUNICATION CONNECTIVITY PERFORMANCE

- Control of the belt motor, with speed adjustment
- Automatic ejection management with synchronization of the product transit
- Automatic synchronization with adjacent transport systems
- Verification of the availability of compressed air
- Bar-code readers support to automatically select the product related program in real time
- Verification of the successful ejection of the contaminated product
- Verification of the presence and space availability of the contaminated product container
- Management of encoders for a belt speed monitoring
- Remote management via Ethernet/Wi-Fi

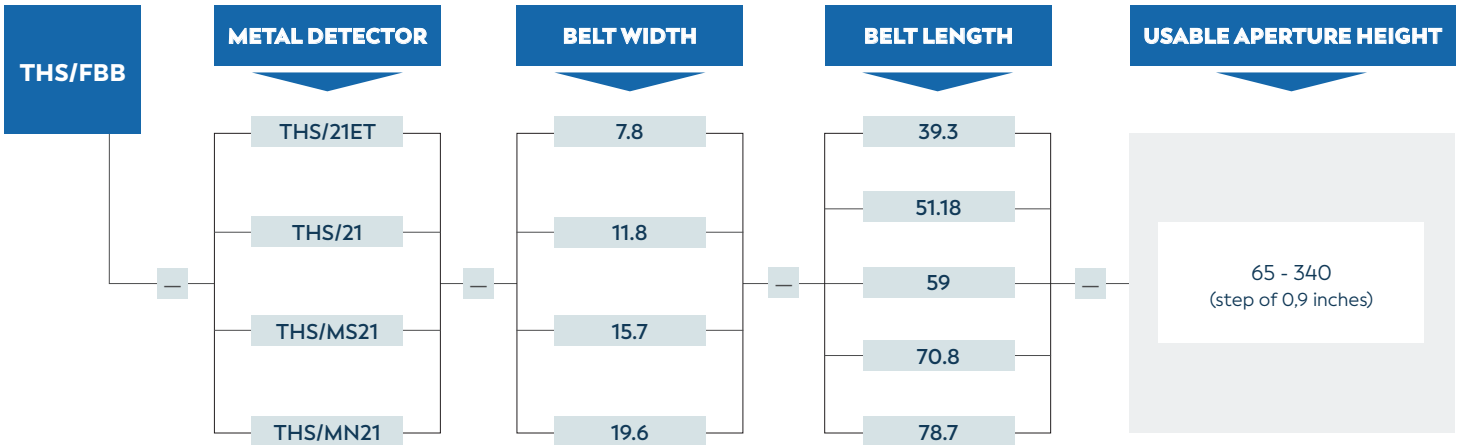
**Supermarket Specifications Compliant**



# THS/FBB FLAT CONVEYOR BELT



## CONVEYOR FEATURES



Dimensions in inches



### EASY TO CLEAN AND INSPECT

Conveyor belt can be removed without any tool

### LOCAL AND ADVANCED CONNECTIVITY



### UNIQUE DETECTION CAPABILITY

of magnetic, non-magnetic and stainless steel contaminants



### EJECTION SYSTEMS AVAILABLE

- Belt stop
- Air blast
- Pusher arm
- Overhead pusher

### ROBUST

AISI 316L stainless steel construction



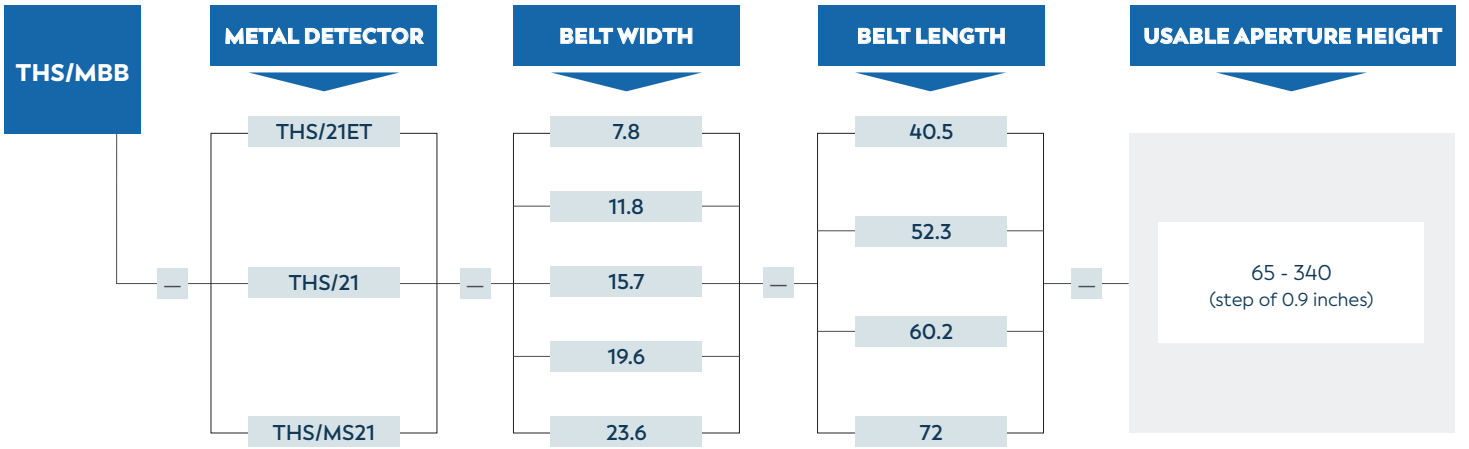
### SYNCHRONIZATION PHOTOCELL

for ejection timing and product counting

# THS/MBB MODULAR CONVEYOR BELT



## CONVEYOR FEATURES



Dimensions in inches

**AUTOMATIC LEARNING & TRACKING** of product effect

**ADVANCED AUTOTEST FUNCTION**

**DIFFERENT TYPES OF BELTS**



- Intralox Flush Grid



- Intralox Flat Top

**MULTI-SPECTRUM TECHNOLOGY**

Unique metal detection technology that both optimizes sensitivity to all metal contaminants and minimizes product effect in a very wide range of possible products



**EJECTION SYSTEMS AVAILABLE**

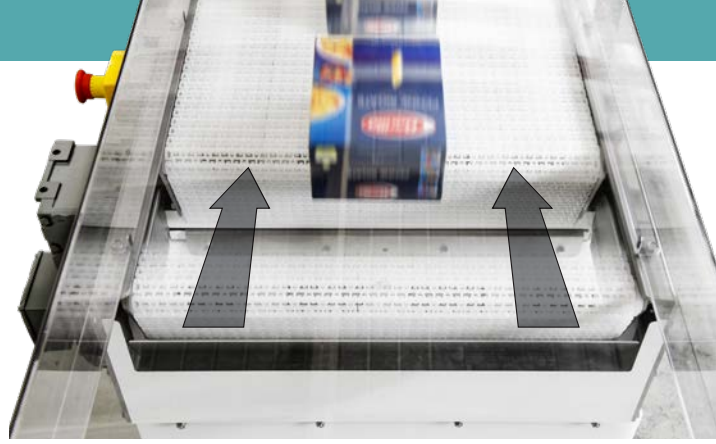
- Belt stop
- Air blast
- Pusher arm
- Overhead pusher

**STRUCTURE & COMPONENTS IN AISI 316L**

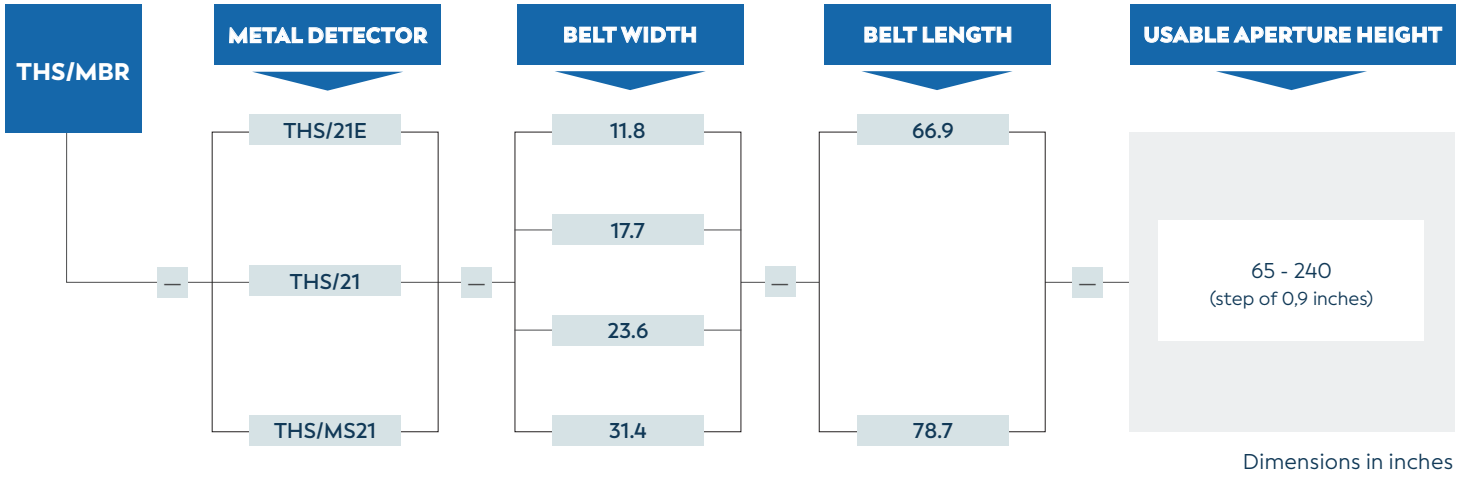
stainless steel and food-compatible plastic parts (EU, FDA compliant)



# THS/MBR MODULAR CONVEYOR RETRACTABLE BELT



## CONVEYOR FEATURES



### RETRACTING SECTION OF THE BELT

- Intralox Belt



### DETECTION

Best in class detection to magnetic and non-magnetic metals

**SYNCHRONIZATION PHOTOCELL** for ejection timing and product counting

**EJECTION CONFIRMATION & EJECTION POSITION CHECK** proximity sensors

**FULL COMPLIANCE** with HACCP criteria

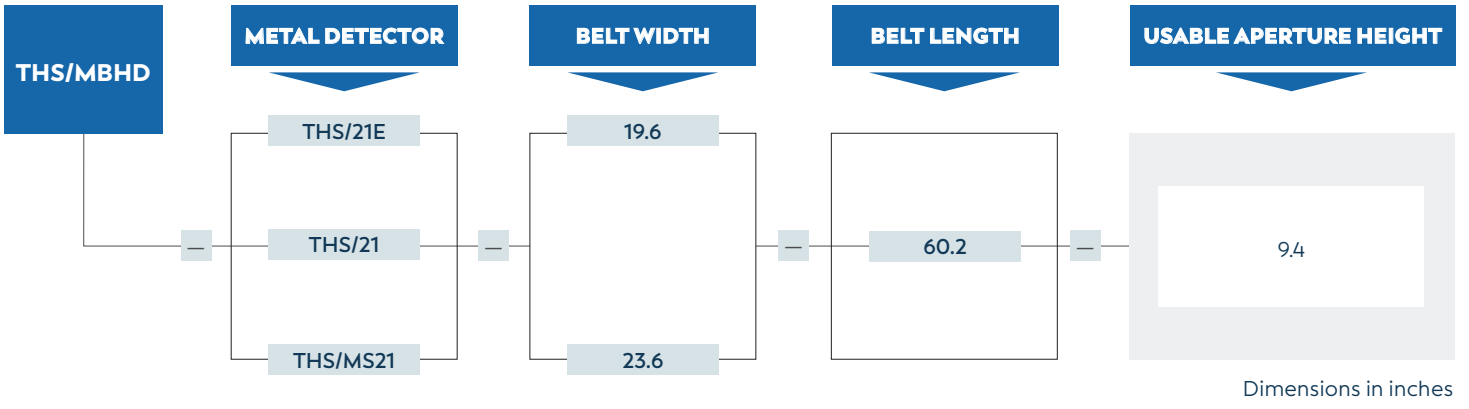


**OPEN FRAME DESIGN** Easy and quick cleaning process

# THS/MBHD HEAVY PRODUCTS INSPECTION



## CONVEYOR FEATURES

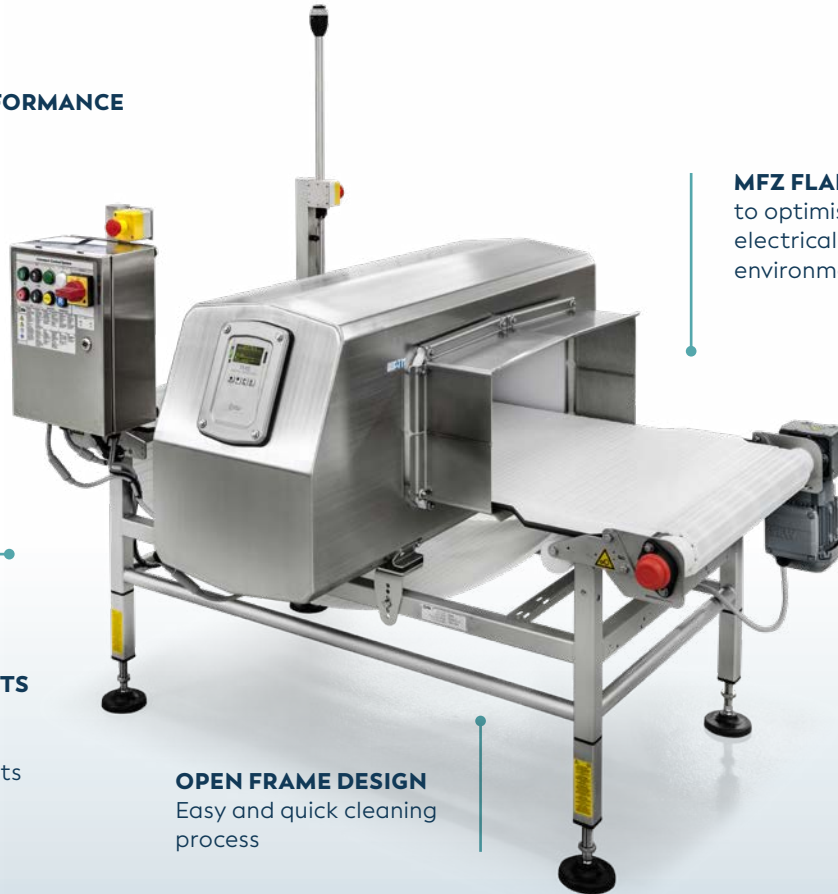


**MARKET'S MAXIMUM PERFORMANCE**  
on heavy product sizes

**ADVANCED AUTOTEST FUNCTION**

**MINIMUM INSTALLATION SPACE REQUIRED**

**STRUCTURE & COMPONENTS IN AISI 316L**  
stainless steel and food-compatible plastic parts (EU, FDA compliant)



**MFZ FLANGES**  
to optimise immunity against electrical and mechanical environmental interferences

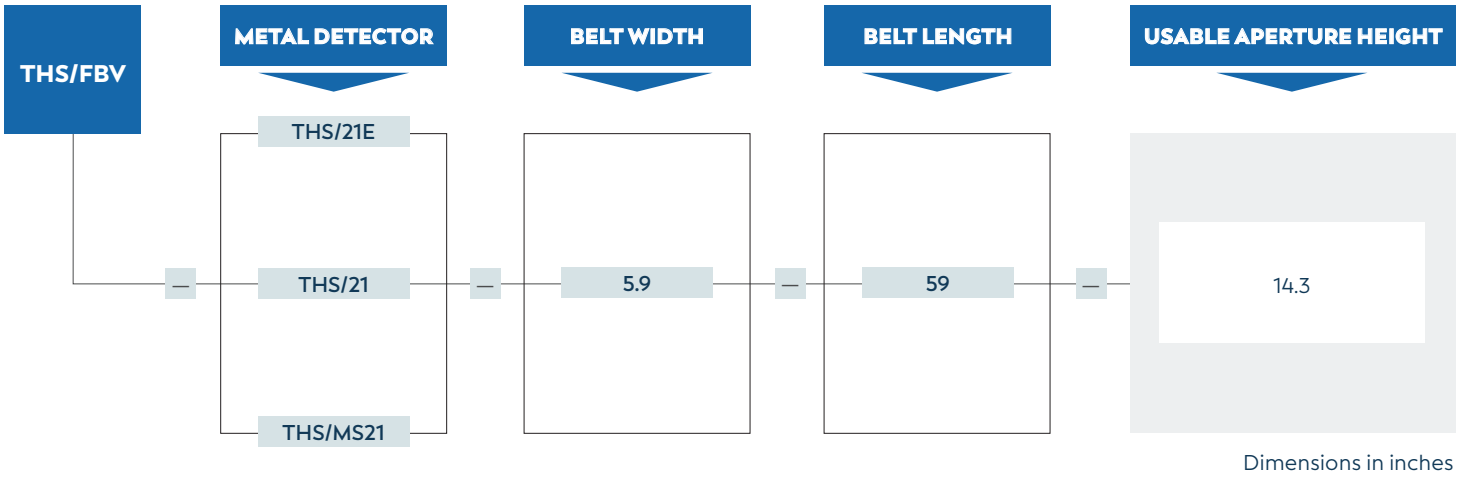
**CONTROL OF THE BELT MOTOR,**  
with speed adjustment

**OPEN FRAME DESIGN**  
Easy and quick cleaning process

# THS/FBV - THS/FBBV VERTICAL-ORIENTED PRODUCTS INSPECTION



## CONVEYOR FEATURES



### BEST DESIGN FOR SMOOTH TRANSFER OF SMALL PRODUCTS

**BAR-CODE READERS** support to automatically select the product related program in real time



**Ø13 mm ROLLERS (FBV)** for smooth product transition

**OPEN FRAME DESIGN** Easy and quick cleaning process



**AUTOMATIC EJECTION MANAGEMENT** with synchronization of the product transit

**EJECTION SYSTEMS AVAILABLE**

- Air blast
- Pusher arm



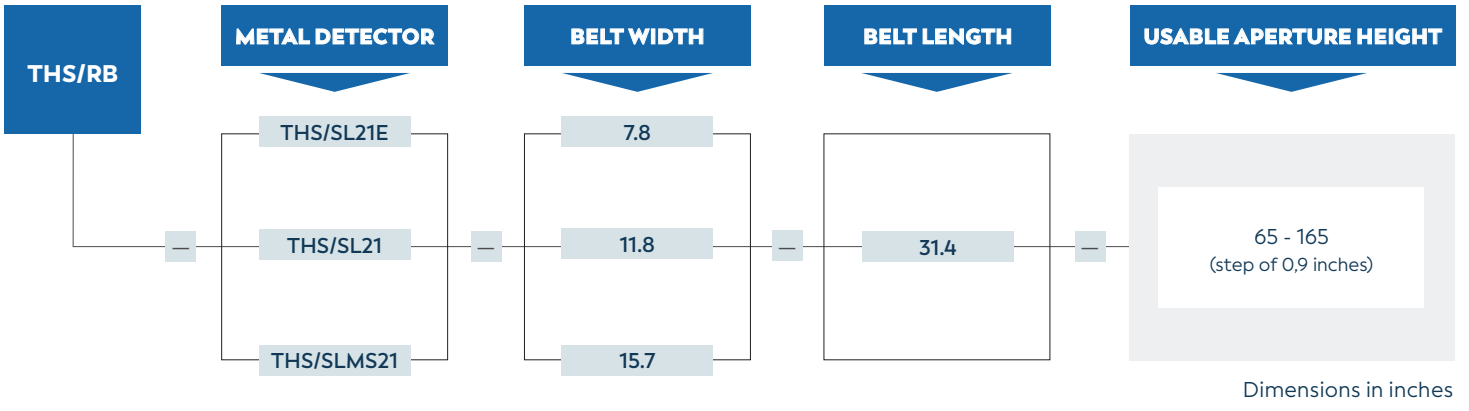
**VERIFICATION** of the presence and space availability of the contaminated product container



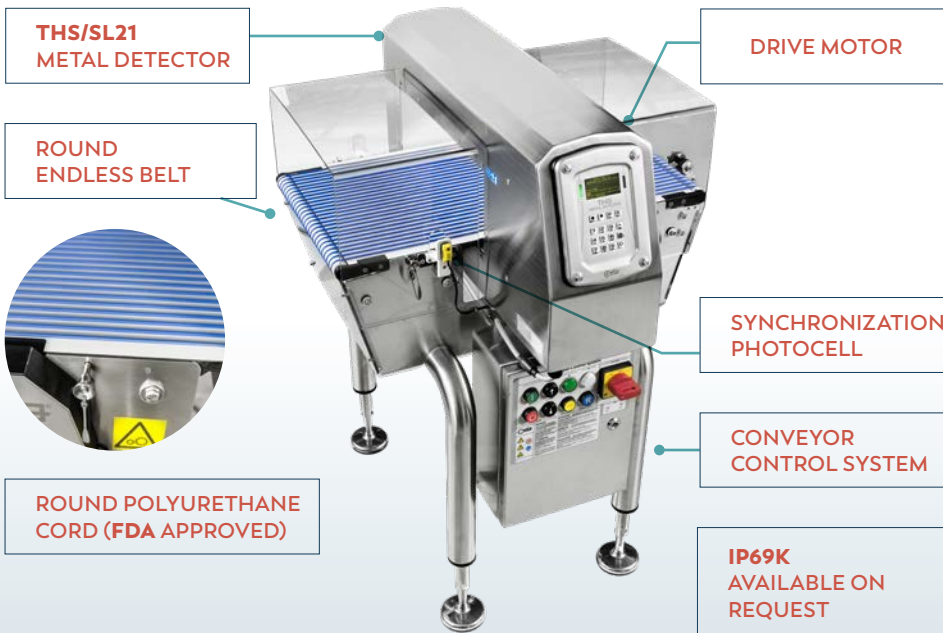
# THS/RB ROUND CONVEYOR BELT



## CONVEYOR FEATURES



- ✓ The **THS/RB-800** is an innovative and unique system designed **for seamless and highly compatible integration into standard checkweigher systems and other in-line applications**, so that maximum detection sensitivity can always be achieved.
- ✓ The **THS/RB-800** offers a high performance cost effective solution where space and best performance are critical.



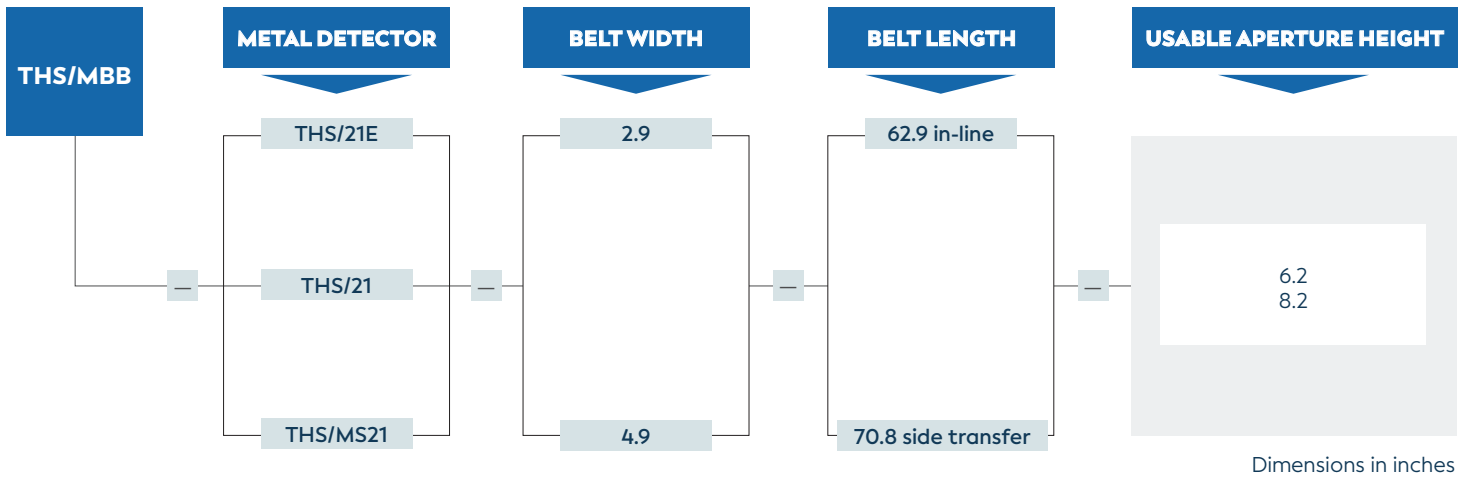
### TOOL-FREE BELT REMOVAL



# THS/MBB VERTICAL-ORIENTED CONVEYOR INSPECTION SYSTEMS



## CONVEYOR FEATURES



**INTEGRATED CONTROLS FOR LINE SPEED AND REJECTION**

**"BLADE" EJECTION SYSTEM**

**AUTOMATIC LEARNING & TRACKING** of product effect

**CONTROL POWER BOX** available according to **UL 508A** and **CSA-C22.2 NO. 286** against electrical and mechanical environmental interferences



### AUTO-QC TEST

Effective calibration check along with a programmable 0 ÷ 100 % reduction of the manual verifications

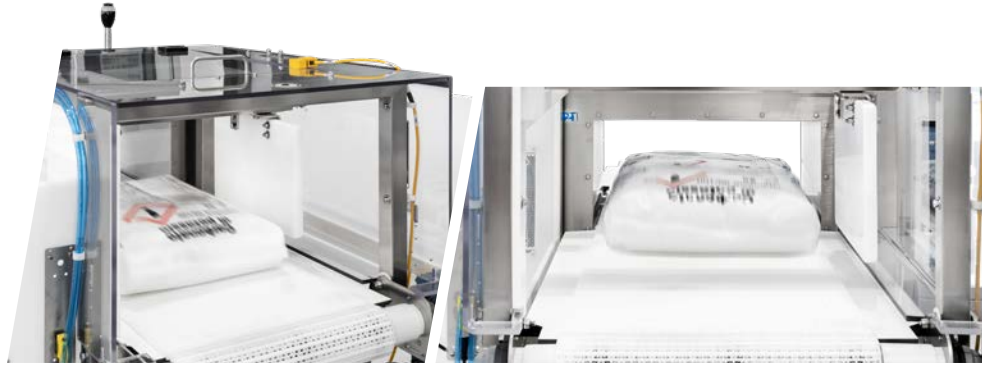


### APPLICATIONS

- ✓ Flacons
- ✓ Bottles
- ✓ Packaging
- ✓ Jars

# CUSTOMIZED CONVEYOR BELT SYSTEM CONV

- ✓ OVERHEAD PUSHER  
EJECTOR



- ✓ LIFT FLAP EJECTOR



- ✓ FLAT CONVEYOR  
RETRACTABLE  
BELT (FBR)



- ✓ IDLE ROLLER  
REJECT BIN



OTHER OPTIONS  
AVAILABLE  
ON REQUEST



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