



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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www.heatandcontrol.com

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.

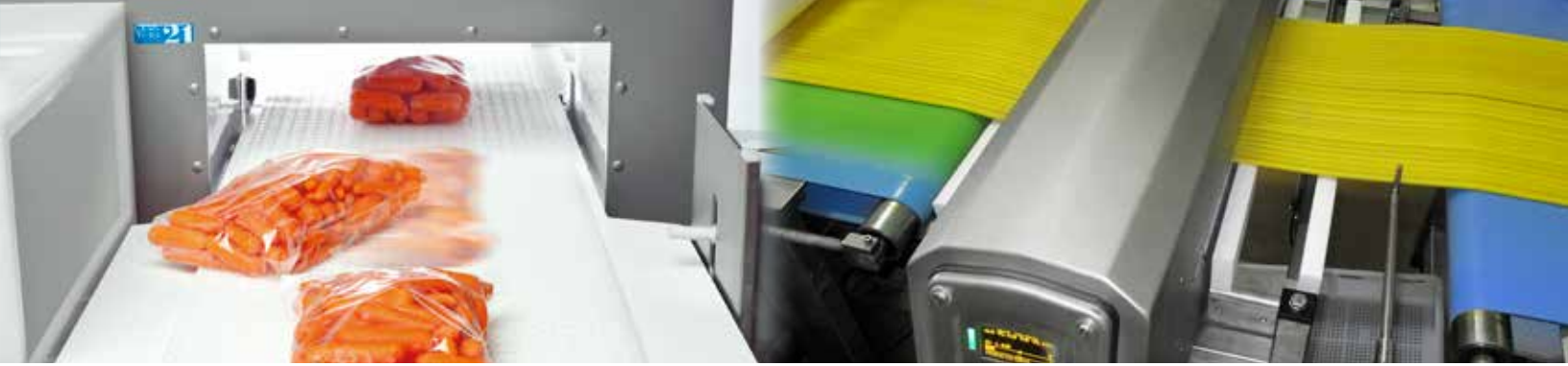
EXCLUSIVE AUTO-LEARN SYSTEM

- ✓ 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

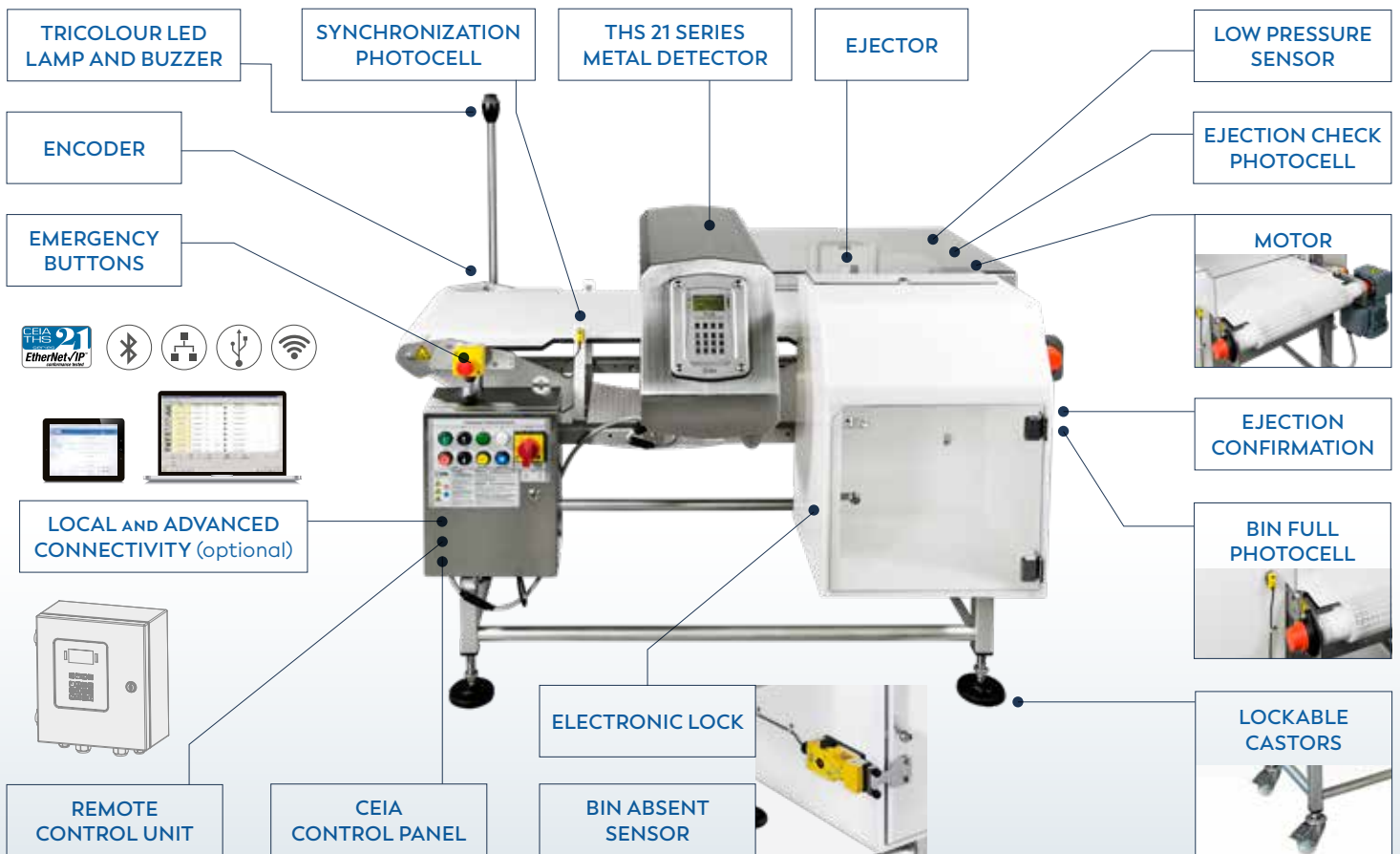




UNEQUALLED INTEGRATED I/O AND COMMUNICATION CONNECTIVITY PERFORMANCE

- 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

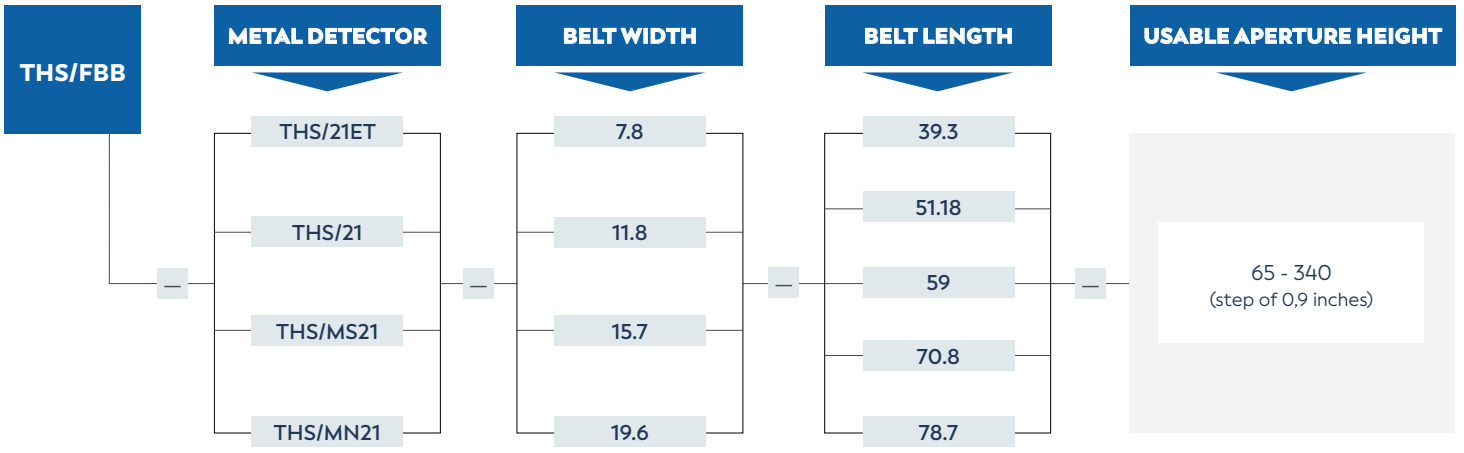
**Supermarket
Specifications
Compliant**



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



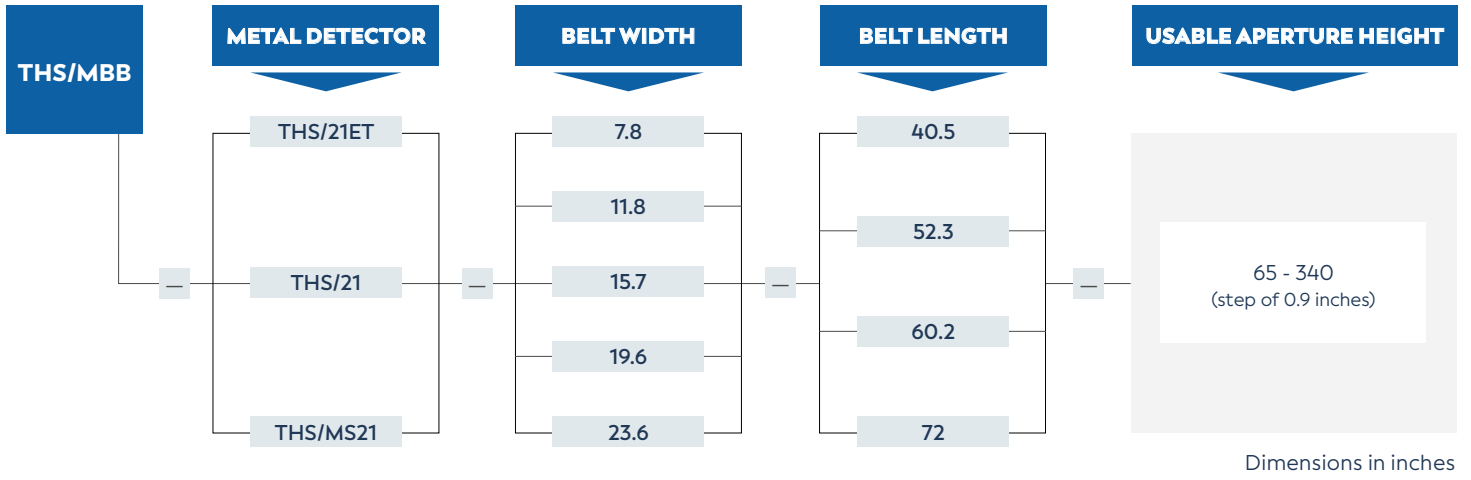
SYNCHRONIZATION PHOTOCELL

for ejection timing and product counting

THS/MBB MODULAR CONVEYOR BELT



CONVEYOR FEATURES



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

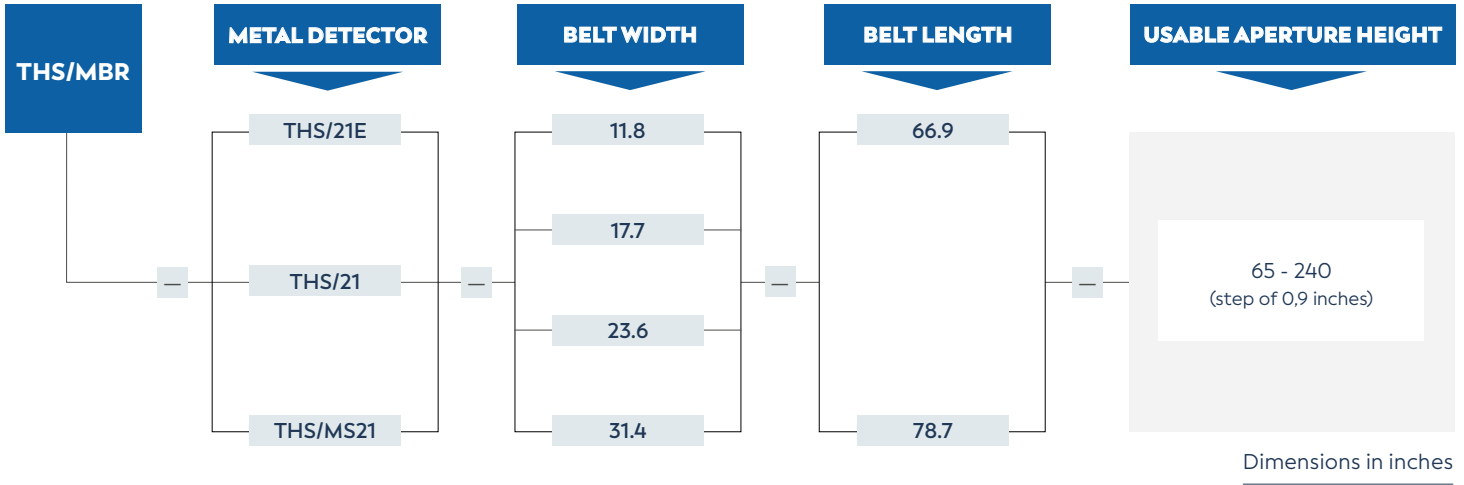
stainless steel and food-compatible plastic parts (EU, FDA compliant)



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

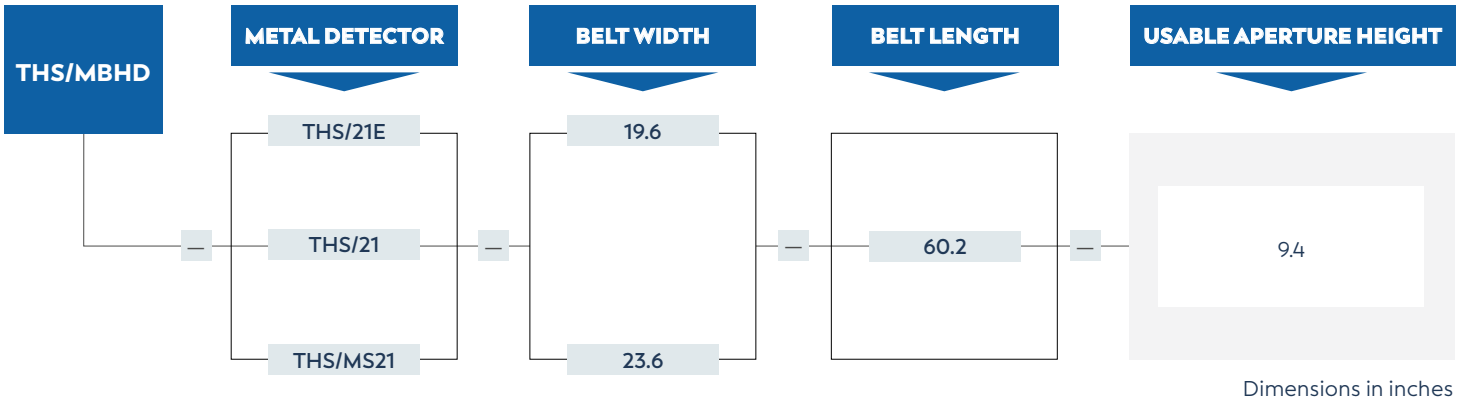


OPEN FRAME DESIGN
Easy and quick cleaning process

THS/MBHD HEAVY PRODUCTS INSPECTION



CONVEYOR FEATURES

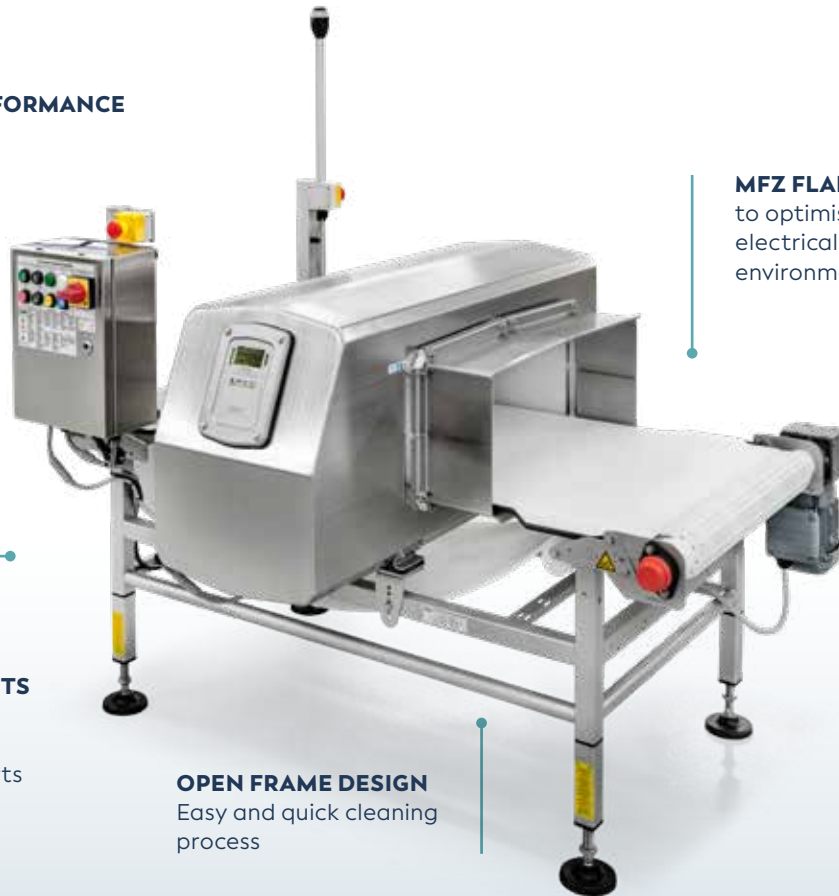


MARKET'S MAXIMUM PERFORMANCE
on heavy product sizes

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

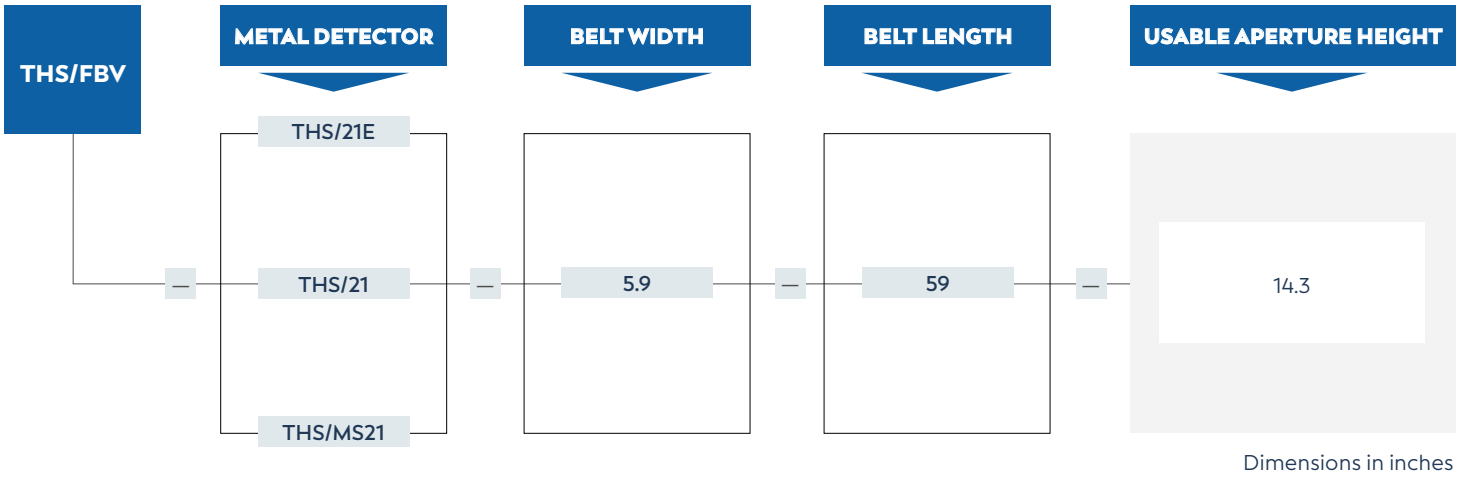
CONTROL OF THE BELT MOTOR,
with speed adjustment

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

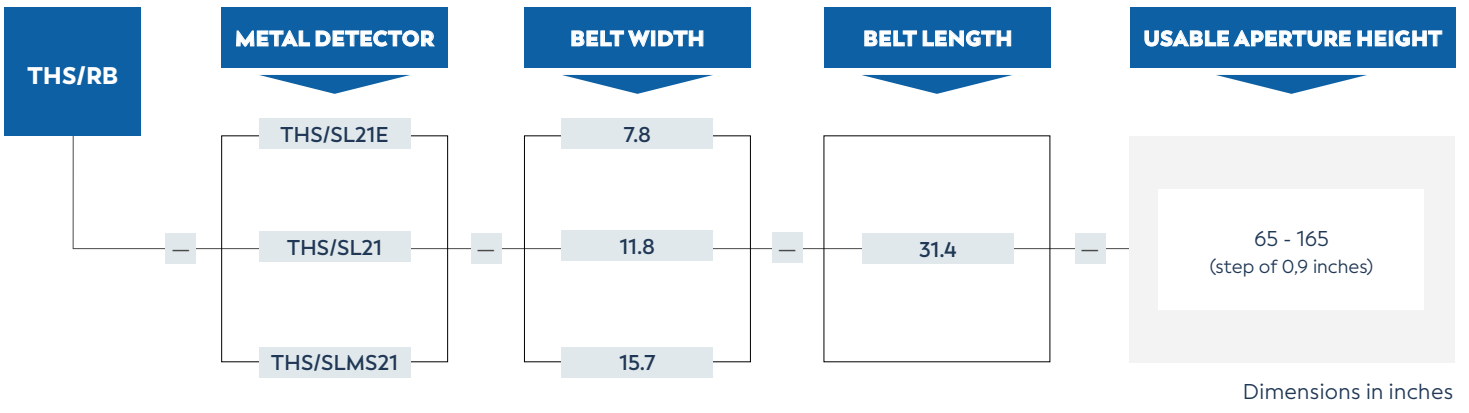


VERIFICATION of the presence and space availability of the contaminated product container

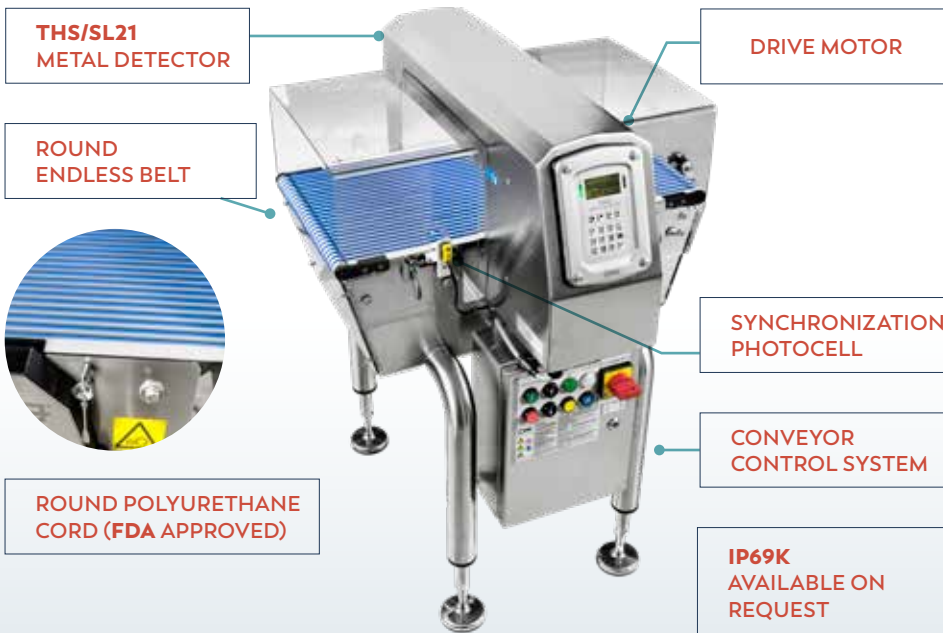
THS/RB ROUND CONVEYOR BELT



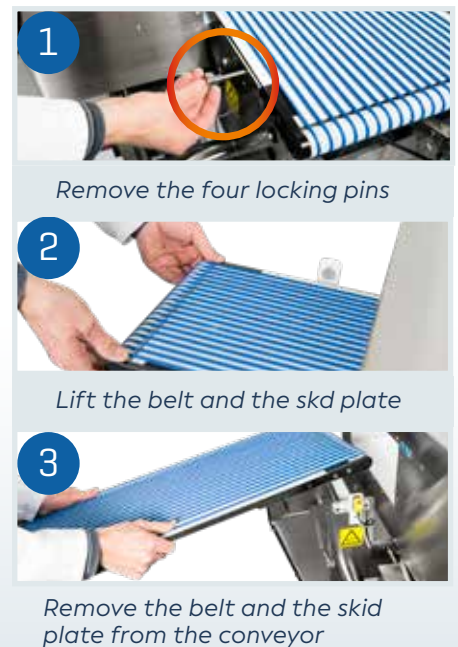
CONVEYOR FEATURES



- ✓ 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.



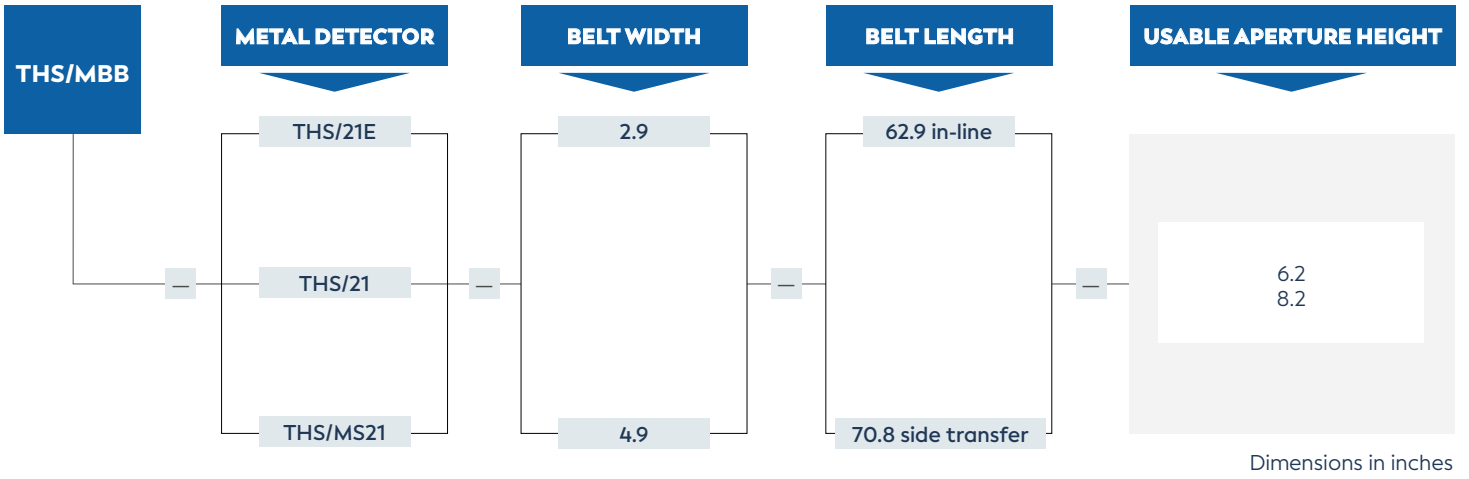
TOOL-FREE BELT REMOVAL



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

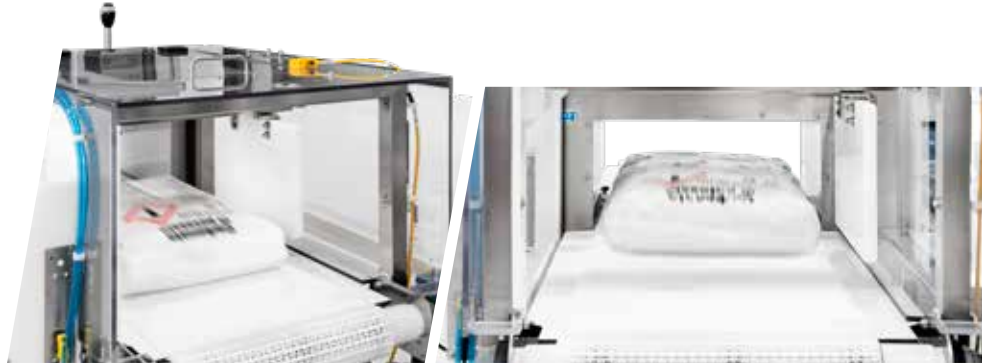


APPLICATIONS

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

CUSTOMIZED CONVEYOR BELT SYSTEM CONV

- ✓ OVERHEAD PUSHER
EJECTOR



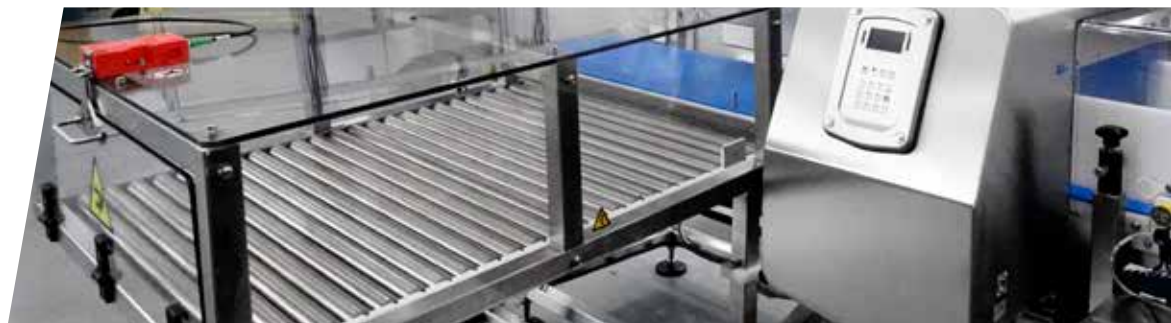
- ✓ LIFT FLAP EJECTOR



- ✓ FLAT CONVEYOR
RETRACTABLE
BELT (FBR)



- ✓ IDLE ROLLER
REJECT BIN



OTHER OPTIONS
AVAILABLE
ON REQUEST



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