

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

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.

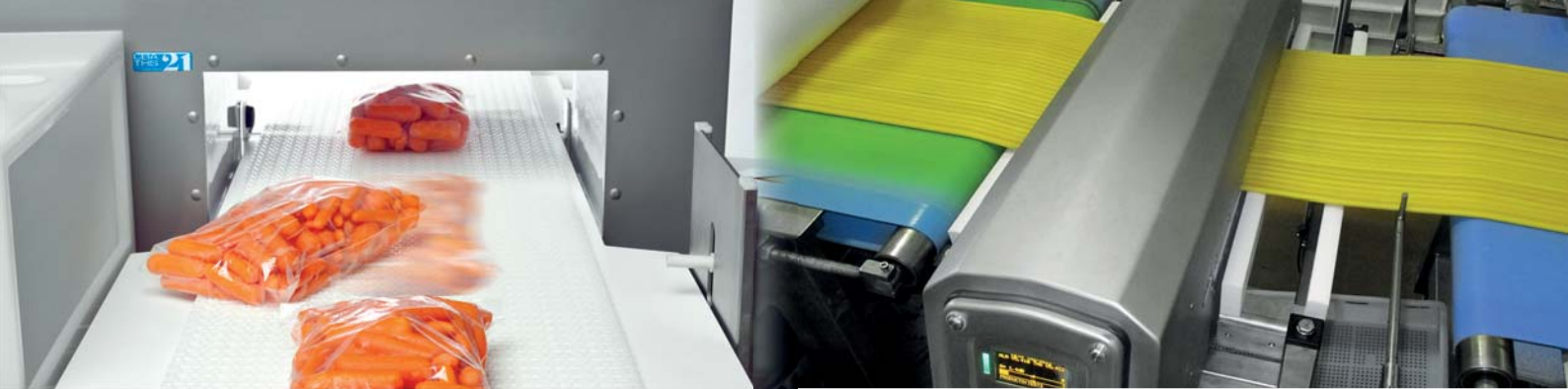
EXCLUSIVE AUTO-LEARN SYSTEM

- ✓ 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

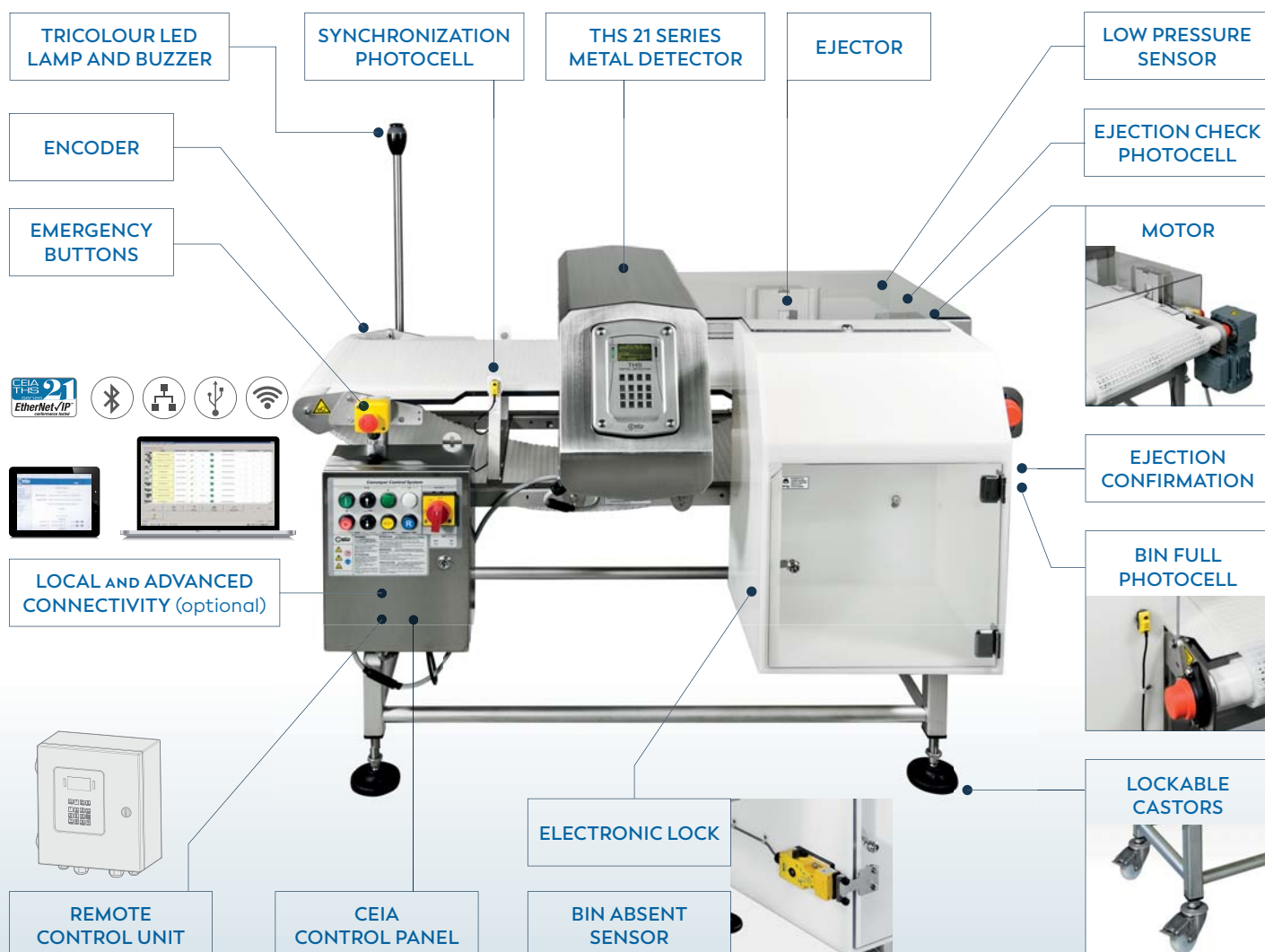




UNEQUALLED INTEGRATED I/O AND COMMUNICATION CONNECTIVITY PERFORMANCE

- 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**

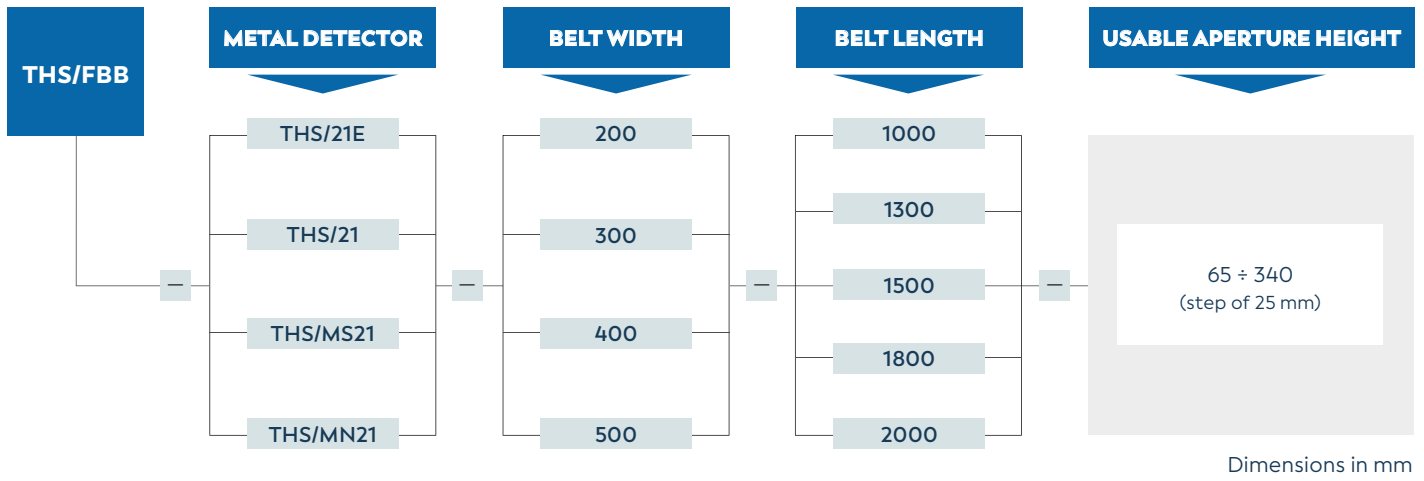


THS/FBB

FLAT CONVEYOR BELT



CONVEYOR FEATURES



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

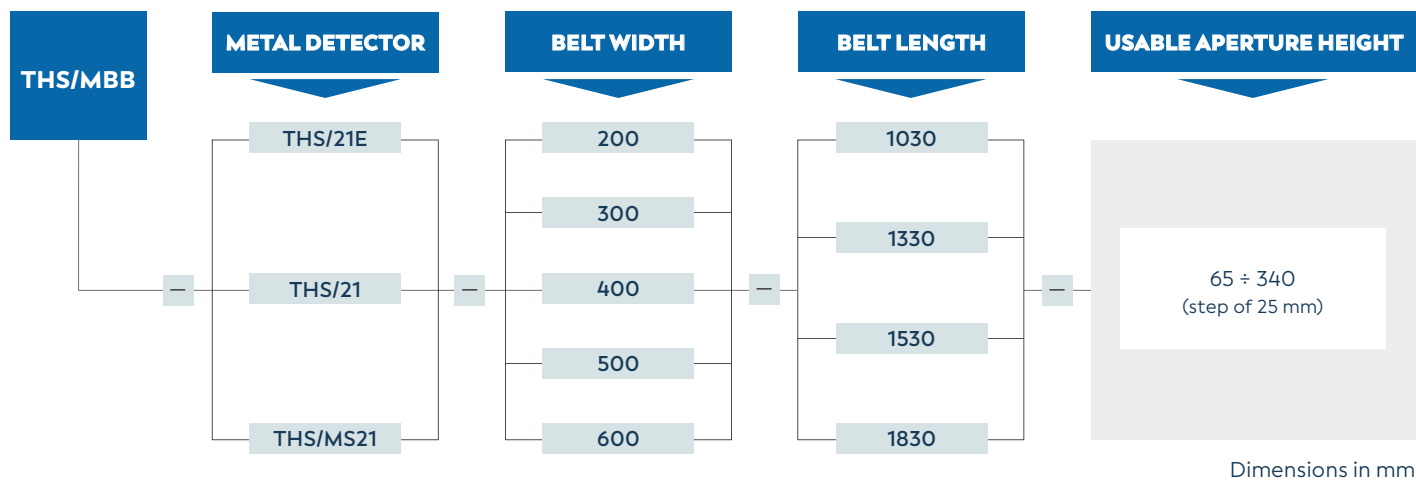
for ejection timing and product counting



THS/MBB MODULAR CONVEYOR BELT



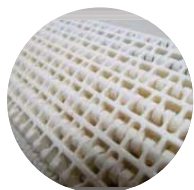
CONVEYOR FEATURES



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)



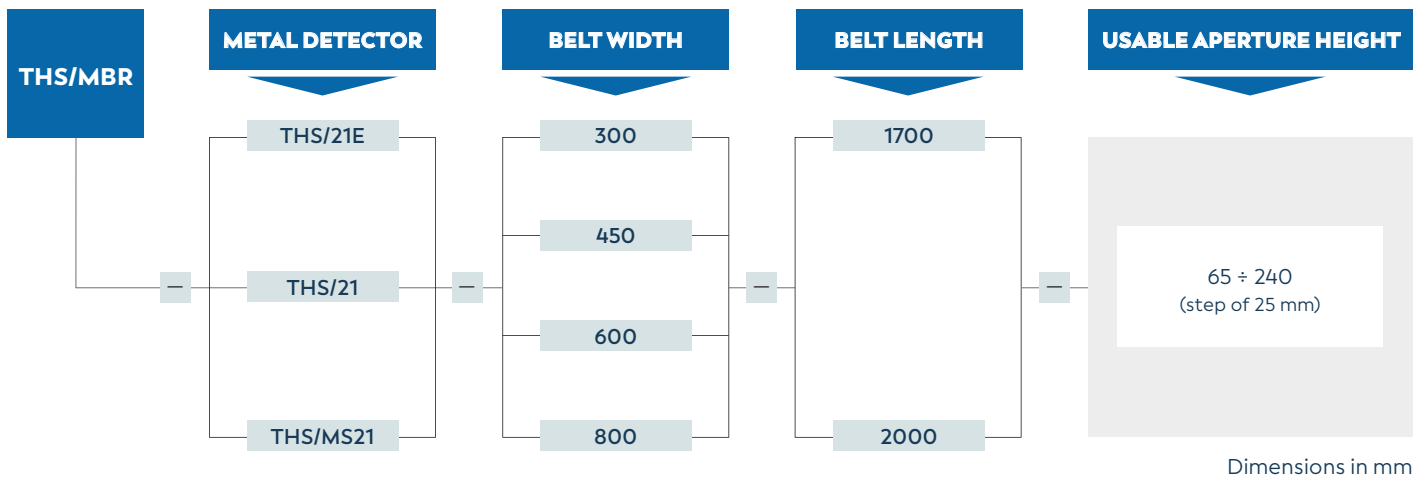
THS/MBR

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



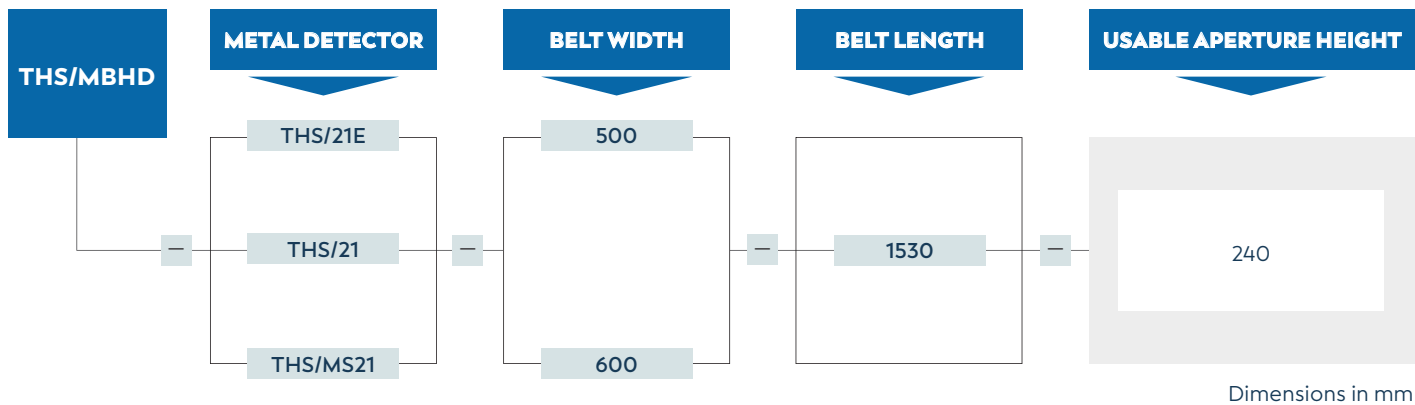
OPEN FRAME DESIGN
Easy and quick cleaning process

THS/MBHD

HEAVY PRODUCTS INSPECTION



CONVEYOR FEATURES



MARKET'S MAXIMUM PERFORMANCE
on heavy product sizes

**ADVANCED
AUTOTEST
FUNCTION**

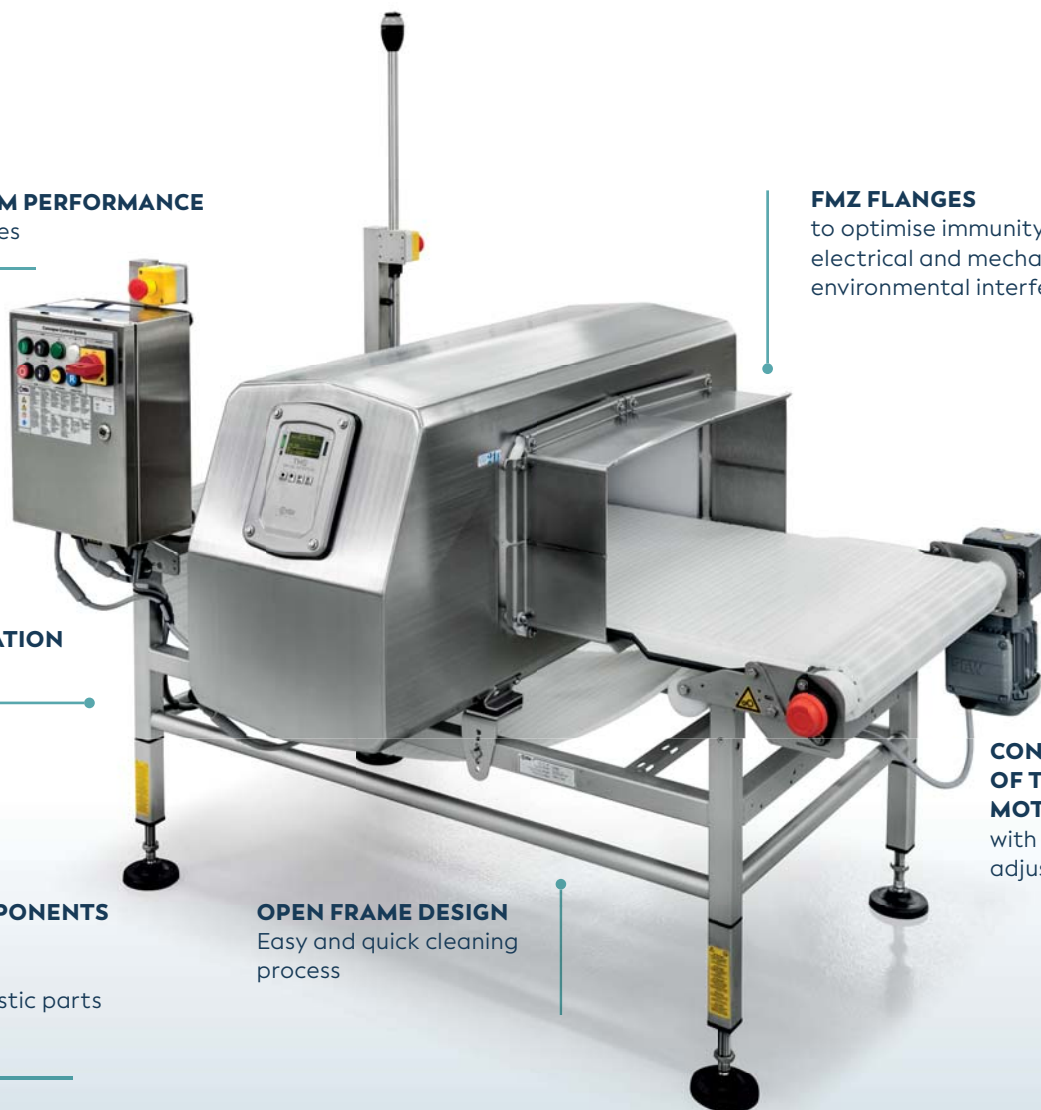
**MINIMUM INSTALLATION
SPACE REQUIRED**

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

OPEN FRAME DESIGN
Easy and quick cleaning
process

FMZ FLANGES
to optimise immunity against
electrical and mechanical
environmental interferences

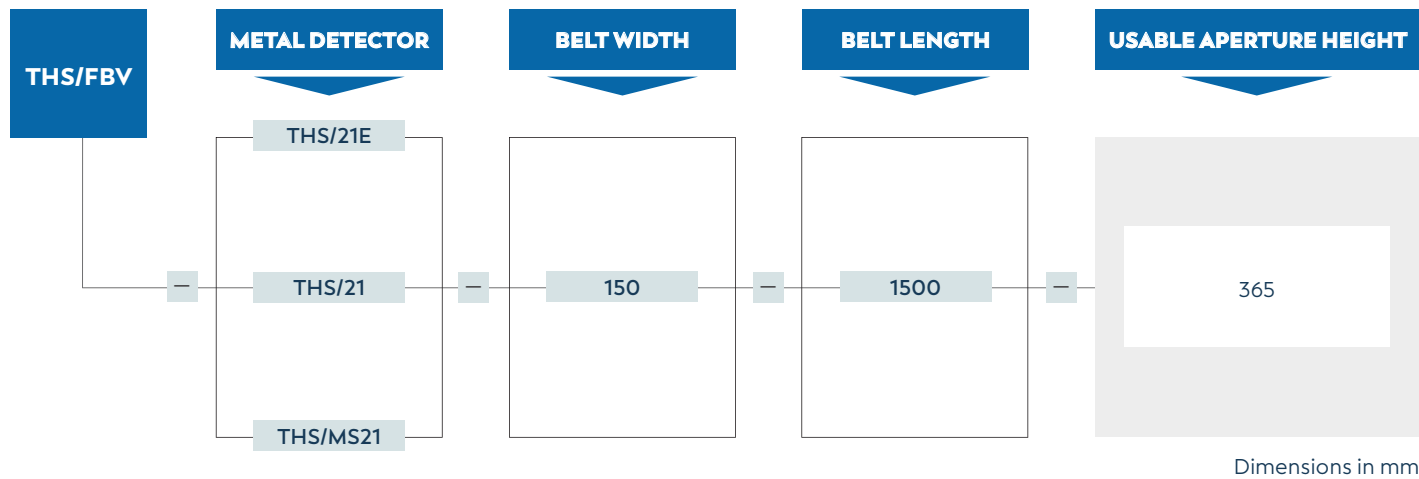
**CONTROL
OF THE BELT
MOTOR,**
with speed
adjustment



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

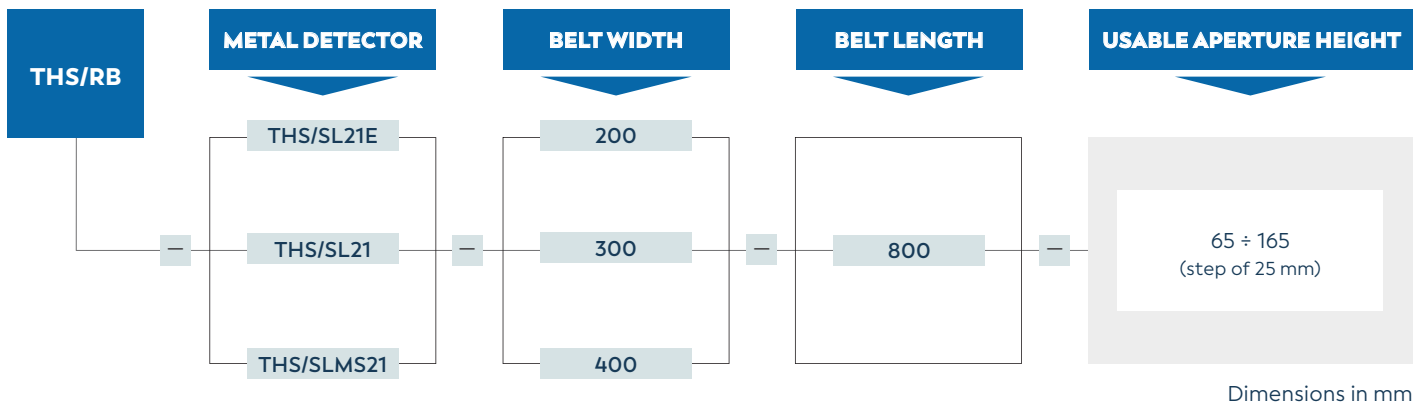


THS/RB

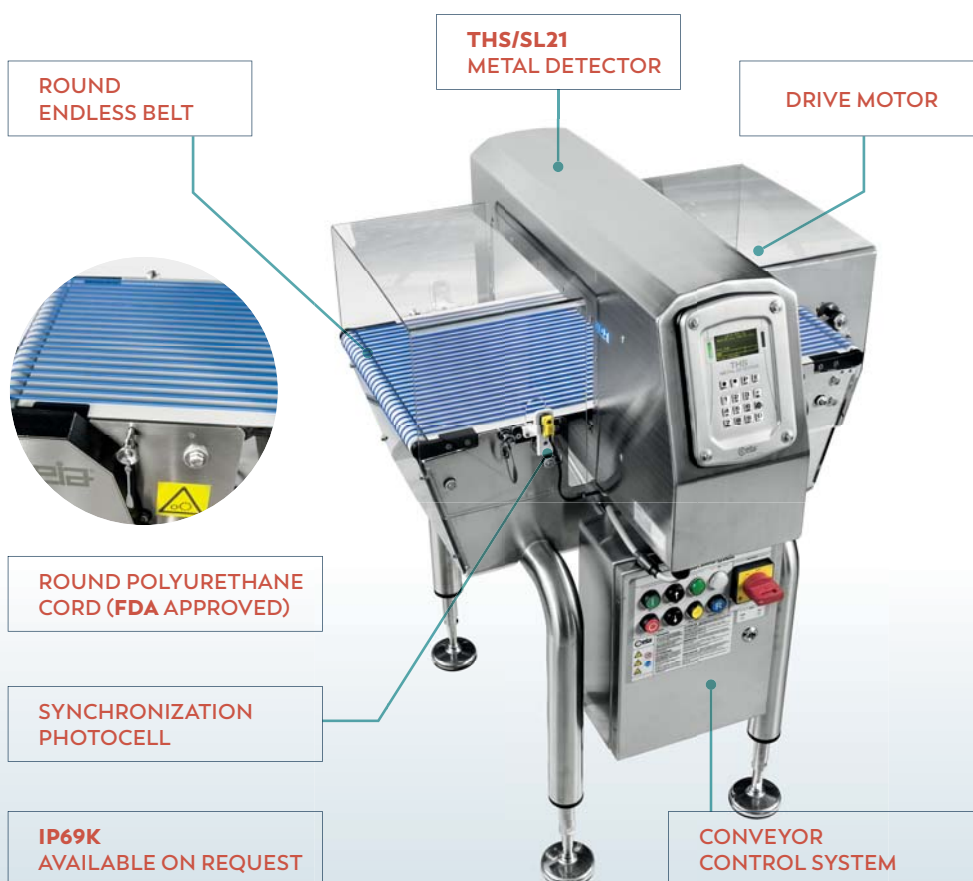
ROUND CONVEYOR BELT



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.

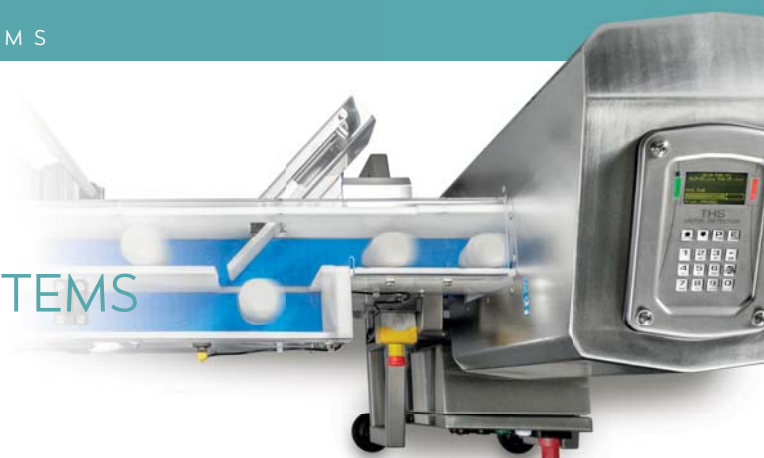


TOOL-FREE BELT REMOVAL

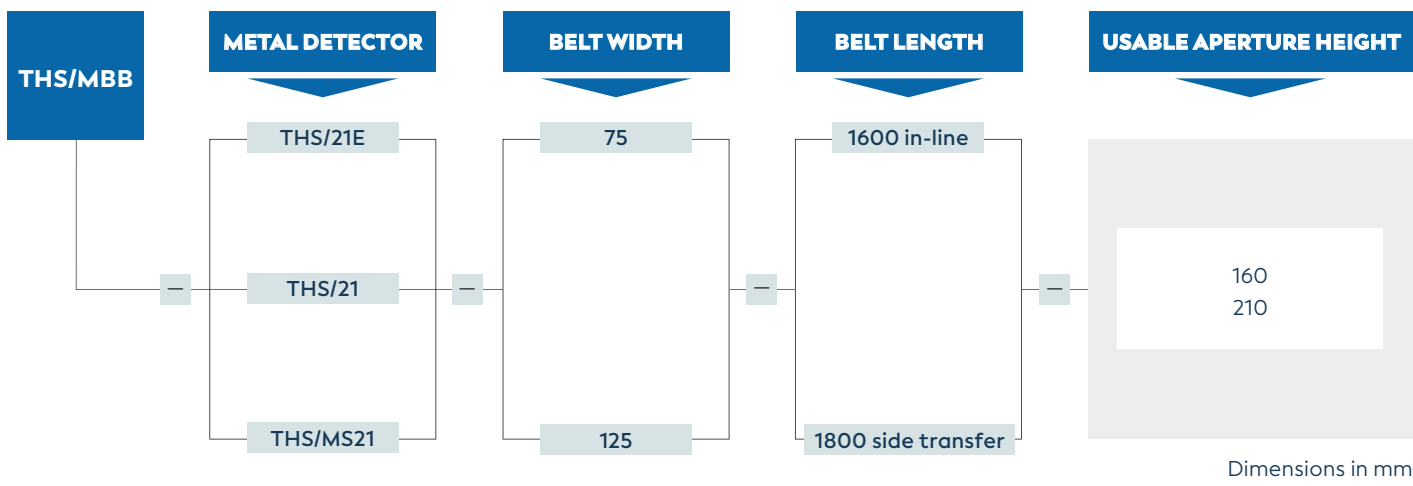


THS/MBB

VERTICAL-ORIENTED CONVEYOR INSPECTION SYSTEMS



CONVEYOR FEATURES



INTEGRATED CONTROLS FOR LINE SPEED AND REJECTION

"BLADE" EJECTION SYSTEM

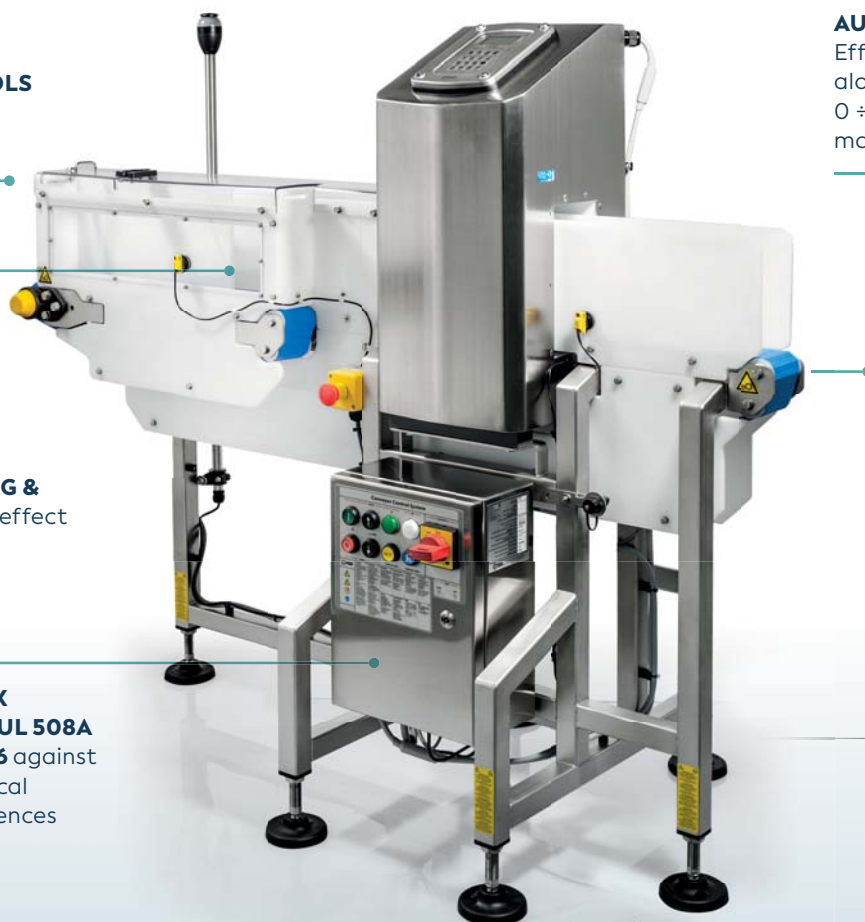
AUTOMATIC LEARNING & TRACKING of product effect

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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