

# INSTALLATION OF THS/MBB® TO INSPECT SOLID PRODUCTS AND BULK POWDERS IN BOTTLES

## BACKGROUND

One of the world's leading health retailers supplying its customers with a wide range of *vitamins, minerals and health supplements* has required a reliable and precise inspection system to detect metal contamination during production. The goal was to **ensure the highest quality and safety standards** while minimizing false rejects and enhancing production line efficiency.

## CLIENT'S REQUIREMENTS

The company required an advanced inspection system capable of **precisely detecting all metal contaminants**, seamlessly integrating into their high-speed packaging line, and offering automated quality control with continuous monitoring. Minimizing maintenance downtime and ensuring consistent production flow were also critical priorities.

## PROPOSED SOLUTION: THS/MBB® – BLADE EJECTOR

To address the client's needs, CEIA proposed the **THS/MBB®**, a cutting-edge inspection system tailored to deliver unparalleled performance in detecting metal contaminants. Specifically engineered for in-line transfer and inspection of packaged bottled products, this innovative solution combines *advanced technology* with *seamless integration*, ensuring optimal efficiency, precision, and reliability in high-speed pharmaceutical production lines.



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## KEY FEATURES OF THE SYSTEM

### 1. HIGH SENSITIVITY TO ALL METALS

The system ensures optimal detection of ferrous, non-ferrous, and stainless-steel contaminants, even in high-speed production environments.

### 2. INTEGRATED CONTROLS FOR LINE SPEED AND REJECTION

The **BLADE EJECTOR** module guarantees precise rejection of contaminated products without disrupting the production flow.

### 3. HIGH IMMUNITY TO ENVIRONMENTAL INTERFERENCE

The THS/MBB's advanced design and technology provide strong resistance to external disturbances, ensuring consistent performance.

### 4. ADVANCED AUTOTEST AND AUTO-QC FUNCTIONS

- **AUTOTEST:** Automatically verifies Metal Detector performance without manual intervention.
- **AUTO-QC:** Continuously monitors compliance with quality standards.

### 5. EASE OF MAINTENANCE AND INSPECTION

The modular design and easy access to key components reduce maintenance time and simplify cleaning operations.

### 6. DIGITALLY ADJUSTABLE BELT SPEED

Allows the system to adapt to various production needs, ensuring versatility and flexibility.

### 7. COMPLIANCE WITH INTERNATIONAL STANDARDS

The system's Control Power Box is certified according to UL 508A and CSA-C22.2 No. 286, meeting rigorous safety regulations.



#### THS-21-MBB

INTEGRATED SYSTEM FOR SOLID PRODUCTS AND BULK POWDERS IN BOTTLES



## CONCLUSION

Thanks to the **THS/MBB®** Metal Detector, the company significantly improved product safety, met customer expectations, and optimized production processes. The system proved to be a versatile, reliable solution tailored to the stringent demands of the pharmaceutical industry.



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