CASE HISTORY

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.

+39 0575 4181 • pharma@ceia-spa.com

www.ceia.net

ISO 9001 CERTIFIED SINCE 1996

Quality Control at its finest

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.

CEIA - Zona Industriale 54, 52041 Viciomaggio - Arezzo (ITALY)
+39 0575 4181 • pharma@ceia-spa.com
www.ceia.net

ISO 9001 CERTIFIED SINCE 1996

CEIA reserves the right to make changes, at any moment and without notice, to the models (including programming), their accessories and options, to the prices and conditions of sale. FC002K0271v2000hUK- 2025