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BORSOI srl (Italy)
Product: **INTUITY with THiNK**

Safe Pillows: How BORSOI srl achieves the highest safety standards in textiles with INTUITY and THiNK

BORSOI srl, a leading manufacturer of filling machines for the textile industry, has stood for the highest quality standards for decades. The Italian company develops innovative machinery solutions used in the production of filled textile products such as pillows, blankets, and cushions.

Innovation and quality are among the company's top priorities. With a focus on cutting-edge technology and comprehensive solutions, BORSOI has earned a global reputation. However, rising demands for product safety and new challenges in quality control required an enhancement of its existing safety concept, particularly regarding potential metal contamination.

The Problem: Risks of Metal Contamination in Pillows

The challenges BORSOI faced went far beyond the usual. In the production of machine-filled pillows, there is a risk that metal particles – particularly broken needles – could end up in the product. For end customers who sleep on these pillows daily, this poses a significant safety hazard. They rely on safe and high-quality products.

The requirements for the solution were clear: the technology employed had to reliably detect ferromagnetic metal particles as small as 1.2 mm. This required an extraordinarily high sensitivity that conventional systems could not achieve. Additionally, the so-called "product effect," caused by the pillow filling materials and the conveyor system, could impair the precision of metal detection

The Solution: INTUITY with THiNK – Precision Meets Innovation

BORSOI selected Sesotec's INTUITY metal detection solution with the innovative THiNK artificial intelligence technology. This system proved ideal for meeting the specific requirements.

Features of the Solution:

- **Highest Sensitivity:** INTUITY reliably detects metal particles as small as 1.2 mm (FE) – a significant advantage over competitor products.

- **THiNK Technology:** This advanced AI-powered technology compensates for interference effects caused by the pillow filling and conveyor system. This increases the accuracy of metal detection and reduces false alarms triggered by product effects.

- **Adaptability:** The metal detection solution is specifically tailored to BORSOI's large production systems, seamlessly integrating into the existing infrastructure.

- **Reliability and User-Friendliness:** The solution boasts low-maintenance components and intuitive operation, facilitating daily use.

Customer Benefits: Quality and Safety Without Compromise

The decision to implement INTUITY with THiNK brought BORSOI numerous benefits that have sustainably impacted both the company and its end customers.

Ensuring Product Safety:

Thanks to the exceptional sensitivity of INTUITY systems, the risk of metal contamination has been completely eliminated. End customers can trust that products delivered by BORSOI are safe and free from dangerous contaminants.

Optimizing Production Processes:

The THiNK technology fully compensates for the product effect, enabling BORSOI's production processes to continue uninterrupted and without additional adjustments.

Future-Proofing and Market Potential:

Installing the metal detection systems brought not only immediate benefits but also new opportunities for the future. BORSOI is already planning to implement similar solutions in the textile recycling industry to expand its product portfolio and tap into new markets.

Conclusion: Technology as a Key to Greater Safety and Success

The installation of INTUITY units was completed in September 2024. Shortly after commissioning, the first positive results became evident. The devices have since been operating reliably, ensuring that all products meet the highest safety standards.

The collaboration between BORSOI srl and Sesotec demonstrates how innovative technologies can address even the most demanding challenges. INTUITY with THiNK has set new benchmarks in metal detection, helping BORSOI not only meet its customers' safety standards but also enhance its own competitiveness.