



CASE STUDY

RFID INMOULD-LABEL

for the GS1 SMART-Box from Georg Utz GmbH

OVERVIEW

Georg Utz GmbH, a global leader in durable and versatile packaging solutions like containers, pallets and trays, for over 75 years, has once again partnered with inotec to develop an innovative labeling solution. The introduction of the GS1 SMART Box required a durable, Auto-ID-compatible label, leading to the creation of the GS1 SMART Box—a product that quickly set new standards for the circular economy.

About Georg Utz GmbH

With 1,200 employees across eight locations on three continents, Georg Utz GmbH has been at the forefront of designing and producing sustainable reusable packaging solutions for industry and logistics. The GS1 SMART Box is a testament to Utz's innovative capabilities, offering a future-proof solution for Logistics 4.0.

The initial situation

- A flexible label was needed for the innovative GS1 SMART-Box
- High demands: robust and tamper-proof, unambiguous marking, easy to read/capture
- 100% hygienic identification

The inotec solution

To meet these high demands, inotec provided an RFID inmould label, creating a truly smart container. This solution offers:

- Durable, hygienic labelling through an inseparable connection of label to the load carrier
- Process optimization and efficient traceability using RFID technology combined with barcode and 2D code
- Various label designs for optimal adaptation to different application areas

THE INOTEC SOLUTION

The GS1 SMART-Box is ideal for RFID inmould labels from inotec. These labels integrate a barcode, an RFID antenna, and an RFID chip, becoming inseparably connected to the container. This ensures permanent identification and elevates the circular economy by enabling multiple identification data capture methods. Bulk reading via RFID technology simplifies logistics, reduces errors, and streamlines processes.

RFID technology ensures seamless traceability, robust tamper protection, and fast, efficient data transfer (Track & Trace). Extensive product tests applying various technical parameters confirmed that inotec's labels meet all specified requirements.



LABEL QUALIFICATION

The RFID inmould label from inotec enhances the GS1 SMART Box's capabilities through its robust, secure, and versatile design. The combination of barcode, 2D code, and RFID technology sets new standards for clear labeling. Inmould labels feature an integrated chip inserted directly during container production, becoming an integral, tamper-proof part of the load carrier.

These labels are flush with the surface, waterproof, chemical and UV-resistant, and extremely robust against mechanical

impacts. Their integration with the load carrier makes them ideal for sustainable recycling systems in industry and logistics. Supplied in stacks, inotec RFID inmould labels can be easily incorporated into the customer's production process with high performance. Various antenna and chip types, along with numerous design options, ensure a suitable label variant for every application.





LOGISTICS 4.0

Equip your operations for the demands of Industry and Logistics 4.0 with advanced barcode and RFID labeling solutions from inotec. With our technology, you can always know the exact location of your goods and monitor processes in real time. By giving containers a digital identity, we enable unprecedented opportunities for optimizing logistics.

YOUR SOLUTION PARTNER

Are you seeking the best solutions and exceptional service? Look no further. With over 40 years of experience and industry-leading expertise, inotec is your trusted partner. Reach out to us and discover how we can enhance your logistics. We look forward to working with you.



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