



Component Identification for Zero Mistakes

Components tagged with RFID at source benefit the entire supply chain.

“It is estimated the automotive industry wastes \$10b of inventory every year due to overproduction.”

AD Global Supply Chain Research, 2022

In the automotive supply chain, mistakes in orders are expensive. A world leader in foam components for car interiors supplies hundreds of different articles for seats and headrests used in every major car brand. How are they using RFID to benefit their own operations, and to ensure every order they ship is correct?

An RFID tag is applied into the product as it is created in the mold. Essential information, including DNS (Date, Part ID and Production number) is built into the product right at the start of the supply chain so it can forever be identified and classified.

The Challenge

The challenge is in automating the order packing process to be error free. To avoid mistakes in orders being shipped out to customers, the RFID system needs to count the exact number of seemingly identical looking products into the correct transport cases.

The Solution

Advanced RFID readers have a long reading range. How do you ensure that when multiple items are in one shipment box, you only read the single item that has just been added? The solution is the combination of RFID technology with a laser sensor.

As a product is placed in a box it breaks the laser beam which pinpoints the exact position, and therefore exactly which box, a product has been placed in. At that split second the RFID reader registers new reads.

Software working with the order information in SAP monitors that each product dropped into a box corresponds to the order list. A screen above each box shows which order is being prepared, which items are already in the box, and how many more items need to be in the box to complete the order. For the staff, a display over each box and a traffic light system instantly indicates any discrepancies.

The Result

- 100% components pre-tagged at source with essential information using RFID
- Near zero mistakes in outbound orders, preventing penalties

The Benefits

- Cost savings
- Improved data quality
- Increased customer satisfaction
- Compliance



To learn more about how Avery Dennison RFID solutions can help your business, visit rfid.averydennison.com