

Application Brief

RFID Smart Labels for Reusable Container Management

Industry

Automotive
Consumer Packaged Goods
Industrial Goods
Retail

Products

Duratron High Tack Polyester RFID Smart Labels
TMX3000 series ribbons
PM43 RFID enabled printer
IF61

Region

US
LATAM
EMEA

Customer Benefits

- On-demand generation of high quality Smart Labels for returnable container traceability
- Reduced loss of assets and reduction in replacement costs
- Increase in efficiency and profitability
- Improved accuracy in shipping, receiving, inventory control
- Reduced labor costs
- Reduced total cost of ownership with free printhead replacement program when Intermec media and fixed printers are used together
- Optimized hardware performance with integrated Intermec printers, readers, antennas and Smart Labels for a total solution



Industry Need

Throughout many industries goods are moved from numerous points within the supply chain in what has been intended to be a “returnable/reusable” container. While the expectation is that these containers will be returned and accurately accounted for, the reality can be quite different. Many organizations use barcode labels or other paper based processes in an attempt to track containers and their returns. Those methods are dependent on the workforce to actively and consistently scan the barcodes or follow the paper return trail. Additionally, the repeated phases that reusable containers are exposed to such as handling, transportation, and cleaning can all have adverse effects on the tracking system elements. All this can result in missed scans, missing labels, or misplaced paperwork which in turn leads to unreliable or incomplete data. Furthermore the need to replace “lost” reusable containers can be costly, resulting in hundreds of thousands if not millions of dollars. It’s clear that without an effective tracking system able to control the movement of containers both outgoing and incoming, any expected ROI is greatly diminished or eliminated.

Reference Links

Global Guideline for Reusable Containers

<http://www.prweb.com/releases/AIAG/09/prweb4591874.htm>

Returnable Plastic Container in Food Warehouse

http://www.intermec.com/learning/content_library/case_studies/csMission2.aspx

Intermec Solution

Intermec solves the challenge of deploying a robust flexible tracking system.

Working with customers in the automotive as well as food manufacturing industries, Intermec extensively tested both label adhesion and durability as well as RF and total system performance. Valuable field data was obtained which resulted in the confirmation of a successfully co-engineered total solution of printers, media, and interrogation hardware. With Intermec antennas, IF61 readers, PM43 printers, and RFID Smart Labels, effective end-to-end container management systems can be easily implemented in a variety of industries resulting in a quick, reliable ROI.

For RFID labels to be effectively deployed in container management and tracking, they must provide robust adhesion to containers molded from HDPE, LDPE, and other common materials. Intermec Media’s extensive library of label construction and adhesive components provide a core competency in designing smart labels specifically for harsh and demanding environments. This can include handling near wash down areas, stacking in staging areas, and continuous warehouse traffic 24/7.

The end result: On-demand flexible RFID labels for application on reusable containers that provide asset visibility to effectively track and account for containers throughout the supply chain regardless of the environment.

Media Product Recommendation

Duratran High Tack Gloss Polyester Smart Labels

Ribbon Recommendation

TMX3000 series resin

Printer Recommendation

PM43 Mid-Range Printer [Profile](#)

Ready – Fastest to deploy. Seamlessly fits any environment.

- Large color multi-lingual tamper proof touch-screen or icon user interface
- No touch configuration capabilities
- Only CCX & WiFi certified fixed printers with standard IPv6 implementation

Reliable – Maximize uptime. Built from 40 years of printing innovations. 3rd generation platform.

- Precision Print for consistent bar code printing with pin point accuracy
- Multilingual Web page loaded on every printer ensures easy device monitoring
- Strong metal structure with metal door that can be locked for media protection

Perform – Increase productivity and process efficiencies.

- Fastest throughput in its class
- Powerful programmable capability with ability to directly connect peripherals
- Most connectivity options in the market

Reader Recommendation

IF61 [Profile](#)

The Intermec Advantage

Through the use of Intermec's total system solution that includes RFID printers and durable print on demand Smart Labels, container management and replacement costs are greatly reduced resulting in a positive impact to the bottom line.

Intermec RFID printers and Smart Labels are optimized to deliver superior performance when used together. Our rigorous testing and co-engineering ensures consistently high print quality, proven label and tag performance in demanding real-world environments, and maximum print head service life for minimal downtime.

Intermec printers and media are complemented by the industry's only complete line of integrated solutions and services, including rugged mobile computers, advanced scanning technology, RFID systems, and RFIDeploySM Services. Intermec products and services are used by customers worldwide to improve the productivity, quality and responsiveness of warehouse business operations.

Printhead Replacement Program

Intermec will provide no cost replacement printheads, as failures occur due to normal wear and tear, to those customers who use Intermec Media Products exclusively with their Intermec direct thermal and thermal transfer fixed printers. For full details, click [here](#).

For more information

Contact Intermec for more information on RFID solutions tailored to your application or industry needs.



North America
Corporate Headquarters
6001 36th Avenue West
Everett, Washington 98203
Phone: (425) 348-2600
Fax: (425) 355-9551

North Latin America
Headquarters Office
Mexico
Phone: +52 55 52-41-48-00
Fax: +52 55 52-11-81-21

South Latin America
Headquarters Office
Brazil
Phone: +55 11 3711-6776
Fax: +55 11 5502-6780

Europe/Middle East & Africa
Headquarters Office
Reading, United Kingdom
Phone: +44 118 923 0800
Fax: +44 118 923 0801

Asia Pacific
Headquarters Office
Singapore
Phone: +65 6303 2100
Fax: +65 6303 2199

Internet
www.intermec.com
Worldwide Locations:
www.intermec.com/locations

Sales
Toll Free NA: (800) 934-3163
Toll in NA: (425) 348-2726
Freephone ROW:
00 800 4488 8844
Toll ROW: +44 134 435 0296

OEM Sales
Phone: (425) 348-2762

Media Sales
Phone: (513) 874-5882

Customer Service and Support
Toll Free NA: (800) 755-5505
Toll in NA: (425) 356-1799

Copyright © 2012 Intermec Technologies Corporation. All rights reserved. Intermec is a registered trademark of Intermec Technologies Corporation. All other trademarks are the property of their respective owners. 612107-04/12

In a continuing effort to improve our products, Intermec Technologies Corporation reserves the right to change specifications and features without prior notice.

