AUTOMOTIVE TOTE LABELING

Summary

Industry
Automobile assembly
Body-in-white
Automotive exterior and interior chassis
Automotive electronics and electrical
Powertrain suppliers
Automotive component distribution

Products
Duratran KS tight removable label
Duratherm S tight removable label
FanTastock label
FanTastock HCW label
TMX2000, TMX3000 ribbon series

Region
North America

Typical Applications
Automotive tote labeling
Industrial tote labeling

Industry Need

Suppliers to automotive assembly plants are categorized as body-in-white; chassis; electronics and electrical; exterior; interior; and powertrain. Just-in-time arrival of parts is critical to plant up time as high volume, high mix, require kanban inventory control systems to efficiently position parts on moving assembly lines.

With lean manufacturing discipline focused on minimizing waste, reducing the environmental impact of operations, and controlling costs, automotive manufacturers have continued to influence their supply chains from disposable containers to reusable totes. These totes eliminate the flow of used single-use containers to landfills, and offer many cycles of reuse as a preferred alternative to recycling. Additionally, these totes can be configured to protect and securely hold heavy, cumbersome items through transit, avoiding damage or loss.

Customer Benefits

- Assured compliance with industry standards
- Durable, high contrast print for consistent scanning performance
- On-demand generation of high quality labels for item traceability
- Labels with versatile adhesive that bonds firmly, removes cleanly
- Reduced total cost of ownership with free printhead replacement program when Honeywell supplies and printers are used together
Application Challenges

Accurately tracking these totes requires a different marking method than the corrugated containers they replace. Labels must bond securely and remain intact throughout shipping, receiving, and inventory holding duration. As totes wear and develop rougher application surfaces, adhesive performance requirements become more demanding to ensure labels do not peel or fall from the surface. When empty totes are ready to be reused, labels must be removable without tearing or leaving residue that negatively impacts future labeling.

In some instances, tote applications require a permanent “license plate” that stays with the tote for its entire lifespan; the contents are linked to the tote identity in the database, rather than relabeling the tote with each new set of contents. These applications demand the highest performance labels, with expectations for long term durability to abrasion while handled, potential exposure to oils or chemicals, and even repeated wash cycles.

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>APPLICATION</th>
<th>PART NUMBER</th>
<th>W x L</th>
<th>ID</th>
<th>OD</th>
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</thead>
<tbody>
<tr>
<td>Duratran KS Tight Removable Label</td>
<td>Removable tote labeling; excellent facesheet strength, controlled bond strength with clean removability.</td>
<td>E26362</td>
<td>4” x 6.5”</td>
<td>3”</td>
<td>8.38”</td>
</tr>
<tr>
<td>Duratherm S Tight Removable Label</td>
<td>Removable tote labeling (direct thermal); excellent facesheet strength, controlled bond strength with clean removability.</td>
<td>E27207</td>
<td>4” x 3”</td>
<td>3”</td>
<td>8.38”</td>
</tr>
<tr>
<td>FanTastock</td>
<td>Permanent “License Plate” tracking of durable containers LC. Superior scratch, smudge, and chemical resistance.</td>
<td>E23068 E23069 E25732 E25733</td>
<td>3” x 1” 3” x 2” 4” x 1” 4” x 2” 4” x 6”</td>
<td>3”</td>
<td>8.38”</td>
</tr>
<tr>
<td>FanTastock HCW</td>
<td>Rough, difficult surface, high temperature labeling; superior scratch, smudge, and chemical resistance. Excellent adhesive bond to textured or challenging surfaces.</td>
<td>E27277</td>
<td>3” x 1”</td>
<td>3”</td>
<td>8.38”</td>
</tr>
</tbody>
</table>

Honeywell Solution

Duratran KS Tight Removable has been field-proven in automotive applications for removable tote labeling. With a synthetic face sheet, this material resists moisture, oils, and has the strength to remove from totes without tearing. The tight removable adhesive bonds securely with a range of typical surfaces (from smooth to lightly textured), yet remains cleanly removable even when totes remain in extended storage.

Duratherm S removable offers the same face sheet strength and adhesive performance, but with the simplicity of direct thermal printing. These labels offer excellent smudge resistance, and the protective topcoat ensures good resistance to moisture and mild chemicals.

For permanent “license plate” applications, FanTastock labels offer the ultimate in durability.

With extreme abrasion, temperature, and chemical resistance, these labels ensure the image remains readable for the life of the tote. For textured surfaces or particularly demanding conditions, FanTastock HCW offers even higher bond strength for secure, permanent identification.

The PM43 printer offers best-in-class connectivity ranging from the CCXv4 and WiFi certified wireless option to a standard serial port, ensuring that applications from cutting-edge integration to legacy hardware replacement are thoroughly supported. With the ability to remotely monitor, change settings, or reconfigure the printer, IT support is greatly simplified. With a full color touch screen or a one-button Icon version, this unit can either empower trusted users or positively eliminate employee tampering.
Honeywell Solution (cont.)
PX series printers offer maximum durability and throughput for 24/7, high volume applications. With a 6.7” maximum media width, the PX6i adds the capability to run industry-standard formats up to 6.5” wide, increasing throughput by 30% over 4” printers.

With Honeywell smart printing capabilities, the PM and PX series printers can communicate to and from the host system. Interfacing with PLCs, scanners, or other devices, these printers can eliminate the need to install and support PCs or terminals at the workstation, reducing deployment and support costs and maximizing efficiency.

Better Together
In mission-critical tote tracking applications, the labeling system must operate flawlessly. Honeywell printers and supplies 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 reduced downtime.

When it comes to deploying a complete automotive tote bar code labeling solution, Honeywell is the smart choice. Honeywell printers and supplies are complemented by the industry’s only complete line of integrated solutions and services, including rugged portable computers, RFID systems, and advanced scanning technology. Honeywell products and services are used by customers worldwide to improve the productivity, quality and responsiveness of their business operations.