

Packaging Testing in CEC to Overcome Pilferage and Load Containment Challenges



Challenge

An automotive supplier producing various OEM and aftermarket components faced challenges of pilferage and load containment for many of their loads. To overcome these obstacles, a complex design was used. Products were stacked onto a pallet with a tab-folded bottom tray, a corrugated sleeve, and a tab-folded top cap. The pallets were stretch wrapped with a clear stretch film for load containment and then wrapped with a blue stretch film for pilferage identification.

Solution

Stretch hood film provides excellent containment for irregularly shaped loads due to its combination of vertical and horizontal containment properties. By testing various consumable packaging configurations and machine parameters in the Signode Packaging Lab, an optimal packaging solution was developed using a Lachenmeier® stretch hood machine. With this solution, the corrugated sleeve and top cap were no longer needed, and a flat corrugated bottom sheet could be used instead of the tab-folded tray. Additionally, only one layer of film is now required to deliver both pilferage identification and load containment.

Signode ISTA Certified Packaging Lab testing included:



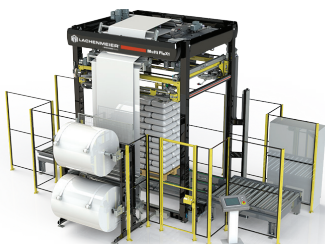
Rough Handling
ASTM D-6055



Edge Drop
ASTM D-6179

Products Utilized

- Lachenmeier® stretch hood machine
- Stretch hood film



Optimal Outcomes

- Eliminated over 75% of corrugated packaging.
- Reduced packaging complexity.
- Pilferage identification and load containment.
- Eliminated manual packaging processes.
- Universal solution for various uniform and mixed load types.
- Optimized load containment.

Cost Focus

Protection Focus



UNDER PACKING

Save on technology and consumables at the risk of damaging products and incurring extra expenses

OPTIMAL OUTCOMES

Protect your product and optimize your packaging investment

OVER PACKING

Excessive packaging protects products while unnecessarily increasing costs and ecological footprint

Our Process

Conduct On-Site Audit

We conduct an on-site review of your packaging lines to understand your challenges and opportunities for improvement.

Design Optimal Solutions

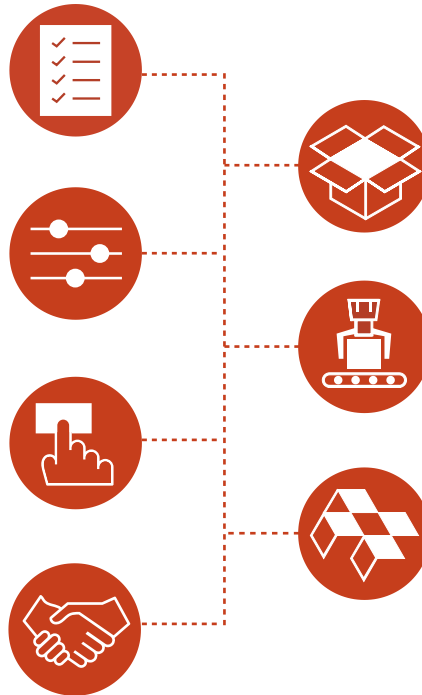
We supply equipment, software and process recommendations that are field-tested in our ISTA-certified labs for validation.

Execute the Concept

We work with you to commission equipment, set up automation, configure software, and train your people with minimum downtime.

Service and Support

We facilitate service and operator training, schedule preventative maintenance, and provide on-site support to maximize uptime.



Packaging Technologies

Protect and stabilize goods in transit with our versatile and innovative end-of-line packaging solutions.

Automation Solutions

Increase efficiency, enhance productivity and improve throughput with automation solutions.

Reliability Services

Comprehensive support to meet the service demands of today and tomorrow.

Our Portfolio

THE RESULT

Signode delivers the lowest total cost of ownership and the highest overall equipment effectiveness; optimizing product protection, in-house automation and ROI.



To learn more about Signode's packaging technology, package testing and service capabilities, schedule an assessment or initiate a proposal for a current application, email: marketing@signode.com.