

## Client Needs

This client was experiencing product damage due to their current package design, as well as difficulty handling the packaging. This required a redesign to eliminate damage and improve the functionality and handling of the package.

## Challenges

- Cartons had “Cut Here” imagery printed on the sides of the cartons. When associates used utility knives to cut open the cartons (to decant harnesses) on the line, the blades would nick/cut the harnesses.
  - o This caused unseen defects that occurred after harness was installed on vehicle and harness came into contact with moisture or oxidizing agents
  - o Associates would also suffer cuts from the utility knives, causing HS&E lost time recordable incidents
- RSC style cartons were hard to dispose of due to heavy liner combination and RSC design.
  - o Associates had to cut them down into smaller parts
  - o Utility knives used (again)
  - o Extra (unneeded) indirect labor for disposal

## Results

-  25% Cost reduction in packaging costs per pallet
-  Annual impact was forecasted at \$1M, later revised to \$895K in packaging costs with large volume of wire harnesses imported from Cebu
-  Virtual elimination of all cut related quality incidents and all HS&E incidents related to cuts by utility knives

## CUSTOMER WIRE HARNESS PACK REDESIGN

# Quality Remediation

## STEPS TAKEN BY ADEPT

To eliminate product damage and improve functionality and usability of the package, Adept engineers redesigned the package to include:

- A Sleeve Pack design with top/bottom die cut tray closure;
- Removable side panels (see image);
  - o Our design incorporated four (4) separate panels; Remove top cover and operators could remove as many panels as needed to gain full access to wire harnesses without cutting the carton;
  - o Double (overlapped liner) strength at corners negated need for inner sleeve

Industrial Sleeve Pack Style Corrugate Containers with Removable Panels



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