

MACK TRUCKS

Automotive Manufacturing/Industrial

ALTEN ADDED VALUE

A 76% volumetric efficiency was achieved by implementing emballage, and the lead time in the sorting process was reduced by 25 minutes/part unit load received.

A total of 23,815 cubic inches of space was saved in the warehouse and direct put-away operation from inbound to storage locations.

Environmental footprint was reduced by saving 50 acres worth of wood per year by implementing emballages

Compliance process was set and placed for inbound goods in accordance with packaging agreements.

KEY DATA

Team Size: 10 Engineers
Time: Since 2016
Location: PA and MS
Work Package

ALTEN TECHNOLOGY

PACKAGING ENGINEERING

OVERVIEW

- Supported Mack's Reborn project, which has a reported total investment of \$70 million in its Macungie plant
- ALTEN Technology's packaging engineering work package team has been supporting multiple projects, including new product classes and e-mobility
- Developed standard packaging solutions to reduce costs and improve quality for Macungie plant
- Provided special packaging solutions for various components

PROJECT DETAILS

- Created new packaging instructions for more than 20,000 parts to date, meeting all standards in ergonomics and quality
- Utilized extensive knowledge of Volvo's packaging guidelines to reduce the engineering hours spent per part
- Showcased expertise in CAD tools for virtual packaging simulations
- All packaging met ergonomic standards for part handling and considered all human interface factors for judging the required number of parts per package
- Won multiple LVO Kaizen awards for cost deployment
- Implemented and followed up with hundreds of suppliers to meet Volvo packaging guidelines
- Created NII cases to bring suppliers into the Volvo Packaging pool



KEY TOOLS & TECHNOLOGIES

- CAD—AutoCAD, Creo, CATIA, PackAssitant
- Volvo—PDMLink, EDB, Rapid, KOLA, TIKa, MACS, CIN, NII

PROJECTS SUPPORTED

- Mack Reborn—lean transformation and chassis insourcing project
- New product launch Mack Anthem
- E-mobility LR refuse truck
- Intro blocks