

COMMERCIAL VEHICLE

Automotive Manufacturing/Industrial

ALTEN ADDED VALUE

76% volumetric efficiency achieved by implementing emballage and lead time in sortation reduced by 25 minutes/part unit load received

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

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

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

KEY DATA

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

ALTEN TECHNOLOGY

PACKAGING ENGINEERING

OVERVIEW

- Supported client's manufacturing facility improvement 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 client'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 client packaging guidelines
- Created NII cases to bring suppliers into the client packaging pool



KEY TOOLS & TECHNOLOGIES

- CAD—AutoCAD, Creo, CATIA, PackAssitant
- Client—PDMLink, EDB, Rapid, client PLM tool, TIKa, MACS, CIN, NII

PROJECTS SUPPORTED

- Lean transformation and chassis insourcing project
- New product launch of a heavy-duty truck series
- E-mobility low-entry refuse truck
- Intro blocks