MACK TRUCKS

# Automotive
## Manufacturing/Industrial

Cross-functional work with ALTEN Technology's logistics and tooling WPs has yielded great results.

ALTEN Technology has vast knowledge of Volvo's operation concept and tools.

Continuous and cross-functional training of ALTEN Technology's consultants across three production lines (chassis, cab, and engine) creates cost savings and adds resources during peak periods.

### KEY TOOLS & TECHNOLOGIES
AUTOCAD, SPRINT, KOLA, MACS, AVIX, Creo

### KEY DATA
Team Size: 9 Engineers
Time: Since 2016
Location: Macungie, PA
Work Package

ALTEN TECHNOLOGY

# INDUSTRIAL ENGINEERING

### OVERVIEW
ALTEN Technology has been supporting Mack's Reborn project with a reported total investment of $70 million in its plant. ALTEN Technology's industrial engineering work package team has been supporting multiple projects within Reborn's scope that have employed nine engineers to date. A majority of resources have been dedicated to the chassis insourcing project.

ALTEN Technology has played a huge role in the global team to develop Mack's master layout plan for new truck development, e-mobility, and paint booth removal projects.

### PROJECT DETAILS
- Served as an integral part of global team meetings to develop a master plan for Mack's LVO plant
- Industrialized Mack facelift project by implementing fish-bone operations concept and reducing NVA
- Created station layouts and tooling plans in the chassis insourcing project for two production lines that span over 250,000 sq. ft.
- Assisted in developing new axle docking, chassis flipping, and transformation to upside-down base module assembly
- Reduced production area space by over 25% and achieved targeted time savings by utilizing a Volvo operations concept that resulted in $500 in savings per truck, ~ $13 million/year

### AREAS SUPPORTED
- Mack Reborn—chassis insourcing
- Mack Truck industrialization
- New product introduction case study and master plan