

MACK TRUCKS

Automotive Manufacturing/Industrial

ALTEN ADDED VALUE

ALTEN Technology has the capabilities to add resources during peak periods.

Cross-functional work between ALTEN Technology's Industrial, Logistics, and Tooling work packages yielded great results.

Continuous and cross-functional training of ALTEN Technology's consultants creates cost savings.

Consultants can easily switch across teams when needed because they have supported operations on various assembly lines across the plant.

KEY DATA

Team Size: 9 Engineers

Time: Since 2016

Location: Macungie, PA

Work Package

REBORN CHASSIS INSOURCING

OVERVIEW

- > 50% of Reborn's budget was allocated to the chassis insourcing project
- Parts of Mack's chassis assembled by external suppliers since 1975
- \$500 cost savings/truck by modularizing assembly under one roof
- Aligned process with Volvo operations concept for upcoming projects
- A diverse team of engineers and PMs from five continents and four brands

PROJECT DETAILS

- Modularized processes and saved 25% of production footprint even after insourcing base-module assembly
- Implemented fish-bone operations concept throughout the assembly line, which improved efficiency and quality
- Created detailed station layouts, PFEPs, and tooling plans for two new base-module assembly lines that span over 250,000 sq. ft.
- Optimized warehousing and inventory management systems by digitizing and deploying Industry 4.0 tools
- Participated in global team meetings to develop a master plan that considered upcoming \$1.5 billion projects
- Benchmarked and developed new axle-grooming, axle-docking, and chassis-flipping equipment
- Supported ramp-up by following a detailed change management methodology that maximized the efficiency of available resources
- Designed numerous assembly fixtures, lifting devices, and kitting and sequencing carts that drastically improved ergonomics
- Created various Power BI dashboards to help track and address issues during the ramp phase and used the Office365 suite to the full extent to enhance the way of working

