

Modular Front-end Carrier

BACKGROUND AND CHALLENGE

- Service time and cost is a key factor for after sales of any product, which determines the market presence
- Methods and processes are adopted in the design phase but still the scope of improvement is unlimited based on the investment involved

SCOPE OF WORK

Value analysis of front end carrier to adopt for multiple variant, modular and improved serviceability

SOLUTION

- Evaluated the front end carrier for challenges faced during the service
- Adopted fixing strategies for subsystem and components for front end carrier assembly
- Developed feasible options to make the system modular with improved DFA & DFS without compromising the structural crash requirements
- Achieved improved thermal efficiency and weight reduction with reduced time for DFA & DFS



IMPACT

Achieved a modular frame structure enabling leaner development cycles