

Tech Mahindra

AUTOMOTIVE CHASSIS SYSTEMS EXPERIENCE

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\$200+ Mn investments in future technologies and expanding global footprint

Investments on Future Technologies



Platform based solutions for Connected Car and Personalized Mobility & Connected Factories



- Ownership of Derivative Programs with Global Execution Models bringing in Cost Arbitrage to the tune of 25%
- Simulation Driven Product Development, 15-20% reduction in Product Development Time
- 20+ years of experience in Safety Critical Automotive Electronics
- Al Enabled Cost Optimization & Supply Chain Management Platforms, 10-12% Product Cost Savings for 100+ programs
- Industry 4.0 Solutions, IoT Based Asset Tracking, AR/VR Solutions
- Engineering Automation, Up to 50% Cost & Time Savings Achieved for 300+ Projects
- Innovative and Flexible Business Models. Willing to Co-invest/Risk Share on New Technology Programs



Chassis Systems: Key Offerings



Chassis subsystems/modules integration



E-axles integration onto Chassis frame



Weight & Cost optimizations









Suspension geometry finalization Ride performance and handling enhancement

Structural stiffness optimizations & crashworthiness checks

Dynamic FE simulation studies (Modal analysis, frequency response studies)



Kinematic & Compliance analysis



Topology optimizations

Road Load Data Acquisition (RLDA) & Real World Usage Profile (RWUP) mapping



Chassis Systems End to End Experience

Design







Product Cost Innovation



Physical Validation Support





Virtual Validation



End to End Sourcing & Manufacturing -



Value Add Services



- After market support NTF (No Trouble Found) -Warranty issues Resolution









Light weight structures design<mark>, weigh</mark>t reduction by 15-20% for Chassis Frames & Modules



Modular Chassis design for new age EV Platforms, scalable across segments



Simulation driven design Optimization of Chassis Mounting Architecture weight reduction of Chassis & Improved factor of Safety for life

Prediction of Fatigue life of Chassis Components using proven virtual Simulation Methodology – Achieved close correlations (>90%)











INTEGRATED ENGINEERING SOLUTIONS (IES)

Is a Connected Engineering Solutions business unit of Tech Mahindra. At Integrated Engineering Solutions, customers are at the core of every innovation. We align Technology, Businesses and Customers through innovative frameworks. We deliver future-ready digital convergence solutions across Aerospace and Defense, Automotive, Industrial Equipment, Transportation, Consumer Products, Energy and Utilities, Healthcare and Hi-Tech products. Our 'Connected' solutions are designed to be platform agnostic, scalable, flexible, modular and leverage emerging technologies like Networking, Mobility, Analytics, Cloud, Security, Social and Sensors, that enable launching of smart products and deliver unique connected consumer experiences, weaving a connected world. Coupled with this, our strong capabilities in Electronics, Mechatronics and Mechanical Engineering along with domain understanding and product knowledge, bring excellence to the entire lifecycle of these connected ecosystems.

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