TECH MAHINDRA AUTOMOTIVE SEATING EXPERIENCE
INVESTMENTS ON FUTURE TECHNOLOGIES

**INVESTMENTS ON FUTURE TECHNOLOGIES**

<table>
<thead>
<tr>
<th>Year</th>
<th>Active Customers</th>
<th>Engineers</th>
<th>Passenger OEMs</th>
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<tbody>
<tr>
<td>2000</td>
<td>50+</td>
<td>4,300+</td>
<td>50%</td>
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- **$200+ Mn** investments in future technologies and expanding global footprint

- **10+** Global engineering centers
- **15%** Commercial OEMs
- **35%** Auto Suppliers

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

- Autonomous driving and connectivity technologies
- Personalized mobility and connected car platforms
- EV/HEV technology
- Future Interiors and seating
- Vehicle weight reduction technologies
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

AI 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
A team of 500+ Interiors & Seating systems engineers working for Automotive OEMs & Tier-1s across the globe

Seat frame design evaluation and design updates for target markets – Application Engineering ownership for 20+ derivative programs

New Age seats concept styling for EV & Autonomous car applications

Design optimization, 15% frame weight reduction retaining the structural integrity

Personalization with HMI with OTA updates

Intelligent Seating algorithms, Advanced control algorithms for low power consumption, overheat protection

Power mechanisms – motor actuators design & durability checks – Analyzing the scenario of seats conversion to cargo mode

Anthropomorphic study, User preferences, Dynamic teardown, LGQ Analysis, H-point definitions – Seat concept Blueprinting

JIT support, component failure resolutions using quality tools, APQP
AUTOMOTIVE SEATING

KEY SUCCESS STORIES

Driver Seat Design & Development
Re-engineering, H-point analysis, back & cushion frame design, side air bag addition, platform consolidation

Rear Seat Assembly Design
Back frame redesign to achieve full flat condition - Tubular structure, weight reduction by 15%

Structures & Trims Design
Brackets for Seat back table, Luggage Hook and Arm rest. Modular bus seat frames. Assembly time reduction by 12%.

Power Seat – Actuators & Mechanisms
Motorized Actuators design for Seat Height adjustment and Active seat buckle lifting

Seating – CAE Analysis & Testing
ECE R-14 & FMVSS 207/210, FMVSS 225, 202, ECR 17 & 25, virtual & physical validations and correlations

Intelligent Seating & E-Systems Development
L3 Automated Driving. Model Based Development for Seat Sensor and Actuator Controls. E-Applications – Luxury, Comfort & Safety
INTEGRATED ENGINEERING SOLUTIONS (IES)

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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