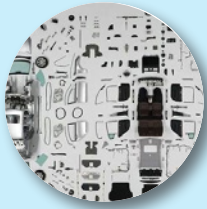


## Value Added Services



### Benchmarking & Target Setting

- Market Research
- Product Research
- Performance Testing
- Functional Testing
- Teardown Study
- Zero Based Costing
- Target Setting



### VAVE/Costing/Sourcing/Localization

- Cost & Weight Reduction
- Zero Based Costing
- Cost Reduction Feasibility
- Supplier Identification
- APQP/PPAP
- Tooling/Prototyping/Testing



### Prototyping & Testing

- Full Vehicle Prototype
- System Level Prototype
- Warranty Analysis & Resolution
- Physical Testing
  - Bench Test (Dyna/4 Poster)
  - Field Test (Test Track/Road)
  - Material Testing

## Consulting

Product Planning / Development for Emerging Markets

Feasibility Studies / Business Case Scenarios

Design / Process Automation



Hinduja Tech, part of the multi-billion dollar Global Business Conglomerate, Hinduja Group, is a Product Engineering and Digital Technologies service provider for the automotive space. Hinduja Tech, headquartered in Chennai is known for its Frugal engineering approach in delivering award-winning vehicle programs by compressing the barriers of cost, quality and time for emerging markets.



Reach us at [info@hindujatech.com](mailto:info@hindujatech.com)

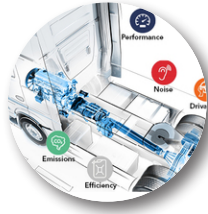


## Product Engineering Services

Imagine • Create • Validate • Succeed



## Frugal EngiNEARing Paradigm



## Full Product Development/Vehicle Integration

- New Model
- Facelift
- Variant
- Modular Design
- Program Management
- Trucks - Highway / Off highway
- Bus/Coach
- Recreational
- Defence
- Special Purpose/Multi-Purpose
- Electric & Autonomous



## Interior & Exterior Trims

### Service Offerings

- Full Cycle Design & Development
- Module Design & Development
- Platform Development
- Value Engineering
- Localization/Sourcing

### Segments

- Passenger Vehicles
- Commercial Vehicles
- Defence
- Multi-purpose

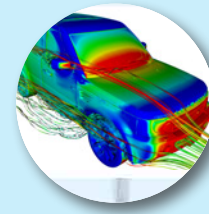
### Systems

- Bumper & Grill
- Cockpit
- Door & Pillar Trims
- Soft Trims
- Seating Systems
- Lighting



## Powertrain Development

- Engine Design and Development
- Engine Downsizing
- Engine Upgrade (Performance/Emission)
- Powertrain Integration
- Application Engineering
- Electric Powertrain - Sizing, Selection, Control & Integration
- Fuel
  - Diesel, Gasoline, CNG, Biofuel and Electric
- Application
  - Automotive, Industrial, Off highway and Stationary
- Engagement
  - Turnkey Solutions/Services



## Virtual Validation

- Structural & Durability
- Safety
- Thermal
- NVH
- Multi-body Dynamics
- Flow
- Body in White
- Trims
- Powertrain
- Chassis
- Electrical & Electronics
- Full Vehicle



## Embedded Systems - Electricals & Electronics

### Services

- Concept/Architecture
- Wiring Harness
- Hardware Development
- Software Development
- System & Vehicle Integration
- Prototyping & Testing
- Regulatory Compliance
- Electric Vehicle Development

### Segments

- Passenger Vehicles
- Commercial Vehicles
- Defence
- Multi-purpose
- Industrial



## Vehicle Manufacturing Services

### Services

- Layout Design
- Process Engineering
- Lean Manufacturing Support
- Material Flow Simulation
- Virtual Factory Simulation
- Fixture and Gauges
- Material Handling
- Facility Engineering

### Segments

- Automotive
- Locomotive
- Oil & Gas
- Industrial



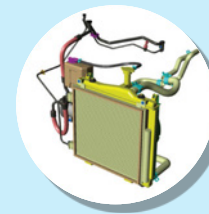
## Body in White & Closures

### Service Offerings

- Full Cycle Design & Development
- Module Design & Development
- Platform Development
- Value Engineering
- Localization/Sourcing

### Segments

- Passenger Vehicles
- Commercial Vehicles
- Defence
- Multi-purpose



## HVAC/Cooling System

- System Sizing and Design
- Radiator, Condenser & Evaporator
- Routing
- Packaging & Integration
- Virtual ValidationW
- Proto Development
- Physical Testing
- Technical Publications