

● DesignTech

Technology for designing the future

An ISO 9001:2015 Certified Company



Helping you
leverage innovation for
product design

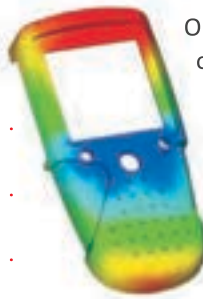
DesignTech Systems provides Engineering Services at every stage of Product Life Cycle starting from

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Concept Design,

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Product Design Validation and Analysis,

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Styling and Industrial Design,

.....
to 3D Modelling and Simulation.



Our rich experience of more than a decade of working with the companies from cross sectional domains and diverse industries in India, North America and Europe combined with our deep domain expertise and knowledge, empowers and enables us to bring in industry specific insights that add value to our services.

With a strong 550+ team of technical experts working on the World's leading Software solutions in the CAD/CAM/CAE/PLM domain, we deliver excellence and create delightful working relationships with our clients.

Today DesignTech has one of the highest customer satisfaction ratios and we cater to the Large and Small companies alike in their engineering initiatives thereby becoming their extended arms and partners in progress through sustained innovation.



Knowledge and Conduct:

We have strength of 550+ engineers with the sound technical and industry specific knowledge required to execute even the most complex engineering assignments with utmost precision and efficiency. Having worked closely with the companies from diverse industrial sectors, our engineering team has gained deep domain knowledge facilitating them to contribute significantly through rich industrial and domain specific insights and thus add value to the challenging and turnkey engineering projects. Our close association and experience of working over the years with the overseas companies has made us well aware of the business imperatives, pressures and deliverables. We also are well familiar with the international norms and standards of product excellence, quality and execution. We adhere to the international design codes such as:

◆ FMVSS ◆ ASME ◆ BIS ◆ DIN ◆ EN ◆ IS
◆ SAE ◆ RCCMR ◆ EJMA

We work with the same commitment, integrity and passion on the small and medium size assignments as we do on the large and complex engineering projects to provide excellent design and analysis services. We strive to provide most cost effective, competitive, yet high quality and advanced services to the companies of all size and type alike to serve our aim of enabling clients derive higher returns on their investment in us.

Engagement model and Security policy:

We adopt a unique engagement model with our clients based on mutual consultation and agreement that is jointly beneficial and at the same time ensures work efficiency and effectiveness. We provide a mix of both on-site (i.e. on the client company's premises) and off-site (i.e. from DesignTech's location) deployment of technical manpower. This cuts the time and communication barriers if the client is located overseas and effects in smooth functioning and progress of the project.

We understand that in today's highly competitive scenario, most of the projects that the companies work on are confidential in nature and we hence stringently adhere to the strict security norms to safeguard and secure the critical design data and information of the clients' product and project. Following steps are taken to ensure data confidentiality'

- ◆ Non Disclosure Agreement' (NDA) with our clients and project engineers
- ◆ No internet access on project work stations, including disabled CD writing / USB ports to prevent any unauthorized person to view, access, copy or even transfer the data
- ◆ Physical screening of all inbound and outbound material / personnel
- ◆ Cordoned secure access space for large / sensitive projects with limited access

Technology, Capability and Resources:

At DesignTech Systems,
we work only on the licensed software.
We have the expertise and proficiency
to provide services on all the leading
CAD and CAE software solutions such as:



CAD Software:

- ◆ CATIA
 - ◆ Unigraphics / NX
 - ◆ IDEAS
 - ◆ Pro-E / Creo
 - ◆ SolidWorks
 - ◆ Inventor
 - ◆ Solid Edge
 - ◆ solidThinking
 - ◆ VISIO
- for Industrial Design

CAE Software:

- ◆ Ansys
- ◆ Nastran
- ◆ LS Dyna
- ◆ HyperMesh
- ◆ OptiStruct
- ◆ ADAMS
- ◆ Radioss
- ◆ Abaqus
- ◆ IDEAS
- ◆ FEMAP
- ◆ CESAR
- ◆ Fathom



Services at Every Stage of Product Life Cycle



Concept Designing

Industrial Design and Styling

Concept Validation

Optimization and functional validation

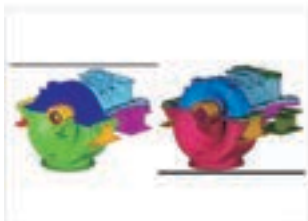
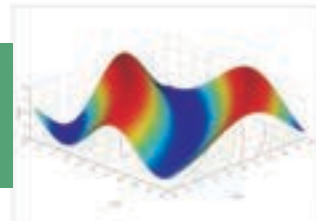


Designing

Detail 3D CAD design & manufacturing drawings

Mathematical Calculation

Empirical Calculations



Analysis / Simulations

Static
Dynamic
Non-linear
CFD

Tooling

Mold Design
Sheet Metal forming
Die design
Jig & Fixture Design



Prototyping

Prototype development services

Manufacturing

Digital Manufacturing
Human Ergonomics
Manufacturing process feasibility



Shop Floor/ Scheduling

Plant simulation
Work cell time study
Assembly
Automation

Future Life Experience Training/Support

Computer Based Training /
Interactive Technical Documentation





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Heavy Engineering



Heavy engineering industry poses a completely different challenge due to the massive scale of operation and the sizes involved. Due to the sheer size and weight constraints, the requirements on operational and construction safety are extremely stringent. At DesignTech, we have a proven track record in this challenging and demanding industry that has earned us a position of "Vendor of Choice" for large structural engineering problems for Organizations like BARC, ECIL, BHEL DRDO etc. Our specializations in heavy engineering include:



- Design of Large Structures as per International Codes and Standards
- Safety Analysis and Validation
- Fluid Structural Analysis
- Steel Fabrication and Erection Drawings
- Manufacturing Feasibility Studies
- Welding Joint Simulations
- Transporting and Lifting Safety Studies Etc.
- Design Calculation for Equipments like Pressure Vessels, Heat Exchangers

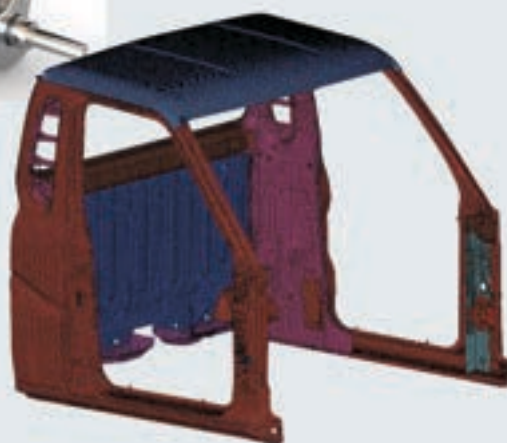
Automotive



DesignTech has been involved in some of the most challenging and successful automotive projects both at OEM, and Tier 1 and Tier 2 Supplier Level.

Our unique engagement model allows us to cater to a large vehicle integration project for an OEM to small product validation for a supplier with same speed and agility irrespective of the size and duration of the project.

Automotive projects require quick turnaround, manufacturing information, exposure to standards and cost sensitivity, all in one go.



DesignTech offers a single window for all automotive product design requirements such as:

- Under-body Components Design
- Vehicle Integration
- Styling and Surfacing
- BIW and Class-A
- Advanced CAE Simulation
- Weight Optimization
- Crash and Impact Analysis,
- Safety Validation as per International Standards like FMVSS Etc
- Multi-body Dynamics and Sheet Metal Forming Simulation
- Engineer Support by Providing Contractual Manpower Onsite / Offsite Projects

Aerospace & Defense



DesignTech has been involved in executing several complex and challenging projects for the Aviation and Defence industry.

Having assisted in projects pertaining to modern defence equipments, Satellite development, we have invested significantly to develop the strengths that are required to successfully execute these large and complex projects.

Our involvement in this sector spans into offerings like....



- Composite Analysis and Optimization
- Integration Studies
- Aero Structures Design and Analysis
- Launch and Shock Load Simulation
- Dynamic Non Linear Analysis
- Design Compliance to Codes
- Fixture Design
- Composite Modeling

Industrial Machinery

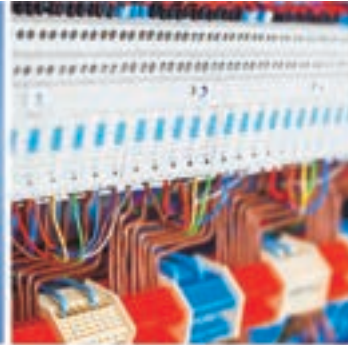


At DesignTech we understand the challenges, complexities, imperatives and intricacies involved in addressing and serving the domain of Industrial Machinery. DesignTech has been working with a wide range of applications ranging from special purpose machines, to production equipments, earth moving machinery, printing and packaging machinery, industrial goods and equipments, mechanisms, automation and robotics, to jigs and special fixtures. Services offered include:

- Special Purpose, Earth Moving and Printing/Packaging Machines
- Jigs and Special Fixtures
- Legacy Data Conversion
- Parameterization and Standardization
- Development of Design Variants
- Localization and Cost Reduction Studies, Manufacturing Process Study and Drawings, Performance Improvement Studies and Design Analysis Including Vibrations, Structural Rigidity, Dynamic and Kinematic Behaviour Analysis
- Engineer Support by Providing Contractual Manpower Onsite / Offsite Projects Interactive Machine Operation, Installation and Troubleshooting Manuals and 3D Documentation



Electro Mechanical & Consumer Goods



Consumer durable industry demands highest attention to details owing to its mass impact for a successful product. Simplicity and cost being the most important factors, DesignTech has synced its capabilities to address all stages of electro-mechanical product design from industrial design to electronic system cooling, from packaging to advanced thermal simulation and tooling.



- Industrial Design
- Electronic System Cooling, Packaging
- Advanced Thermal Simulation Tool Design



Power & Energy



Today we are one of the leading players in India on the nuclear energy arena with successful delivery of many projects to global ITER (International Thermonuclear Experimental Reactor) through ITER – India. In addition we are also working on the conventional energy sector with a top level impanelment with BHEL for various Design and Automation Projects. Some of work synopsis includes....



- Design of Conceptual Designs from Physics Inputs
- Design Compliance to Standards Like RCCMR, EJMA, ASME etc.
- Heat and CFD Calculations
- Engineering Design and Manufacturing Drawings
- Piping Design and Analysis
- Remote Handling Feasibility
- Electromagnetic Analysis
- Seismic and Safety Analysis
- Cryogenics etc

Interactive 3D Technical Documentation



Interactive Technical Documentation is a unique Communication Concept pioneered by DesignTech Systems. It involves using the existing CAD Data of the company to generate an audio-visual demonstration of Product operation, Product Assembly and Disassembly, addressing basic trouble shooting, and understanding the product components through the exploded view.

It is a self paced interactive 3D Product Manual which comes in a CD format and can be made available in multiple languages through the means of voice-over and written instructions on the product working demos.

It uses the existing Design data and applies the latest simulation and visualization tools to build a complete product working demonstration.

This is especially very useful for the complex product structures where traditional video shooting or photography is not practical.

