

ENGINEERING & DESIGN SERVICES



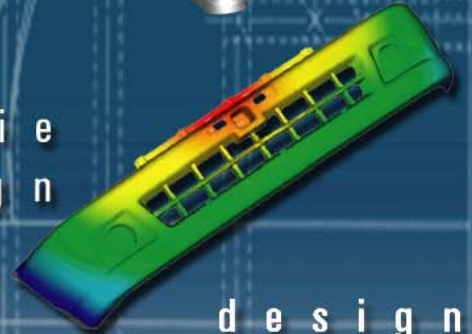
i n d u s t r i a l
d e s i g n



p r o d u c t
e n g i n e e r i n g



t o o l & d i e
d e s i g n



d e s i g n
v a l i d a t i o n



M o t h e r s o n s u m i I n f o t e c h & D e s i g n s L t d

About MIND

MIND (Mothersonsumi Infotech & Designs Ltd. is a core competency center within SUMI MOTHERSON GROUP, providing "Engineering & Design Services" to both internal as well as external customers. MIND is a Public Limited Company and is involved in several prestigious projects from OEM's & their Tier1 / Tier2 suppliers both national and international

Our Offices

MIND (E&D) is headquartered at Noida (India) with branch operations in Chennai & Bangalore within India and Australia, Austria, Sharjah and Germany globally.

Our Services

The Engineering & Design center at MIND designs & delivers end-to-end solutions that help the manufacturing industry by supporting the complete Product Development Cycle at various stages from Concept Design through Product Engineering, Design Validation, Tool Design to Manufacturing.

Our Team

With a strong and dedicated team of 50+ engineers to support our Engineering & Design activities, we can take your New Product Development from Concept to Production.



integrated design services

Our Services :

INDUSTRIAL DESIGN

Product Planning

- Market & Product Research
- Benchmarking
- Design & Trend Analysis
- Storyboarding scenario
- Strategic Design Direction

Automotive Styling

- Complete Vehicle Styling
- Variants
- Interior & Exterior Modules
- Surfacing (Class A)
- Full Scale Models / Mock-ups
- Prototype Making (in Sheetmetal,

Home Appliances & Consumer Electronics

- New Product Concepts & Innovation
- Product Re-design/Re-styling
- Product Engineering
- Design for Manufacturing & Assembly
- 3D Solid & Surface Modeling
- Scaled Models / Mock-ups
- Prototyping for Testing & Tooling



PRODUCT ENGINEERING

Product Design & Development

- Concurrent Product Engineering
- Reverse Engineering
- Manufacturing Feasibility
- Process Engineering
- Jigs & Fixtures Design for Assembly & Checking
- Multi-Platform CAD / CAE Intergration
- Black-Box Design
- Digital Product (DMU)
- Kinematic Study & Integration
- Fit & Function Check & Integration



TOOL & DIE DESIGN

Injection Moulding

- Concept Assembly
 - Standard Type
 - Slider Type
 - Opening Type
- NC Code
- Tool Path Generation

Blow Moulding

Compression Moulding

Prototype Tools & Parts

- Soft tools (AI / MS)
- Injection moulded parts
- FRP parts
- Vacume formed parts
- CNC patterns



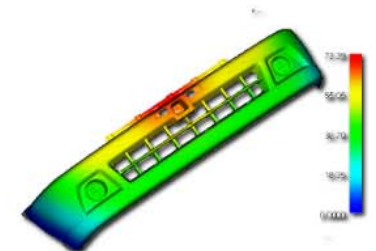
DESIGN VALIDATION

Finite Element Analysis:

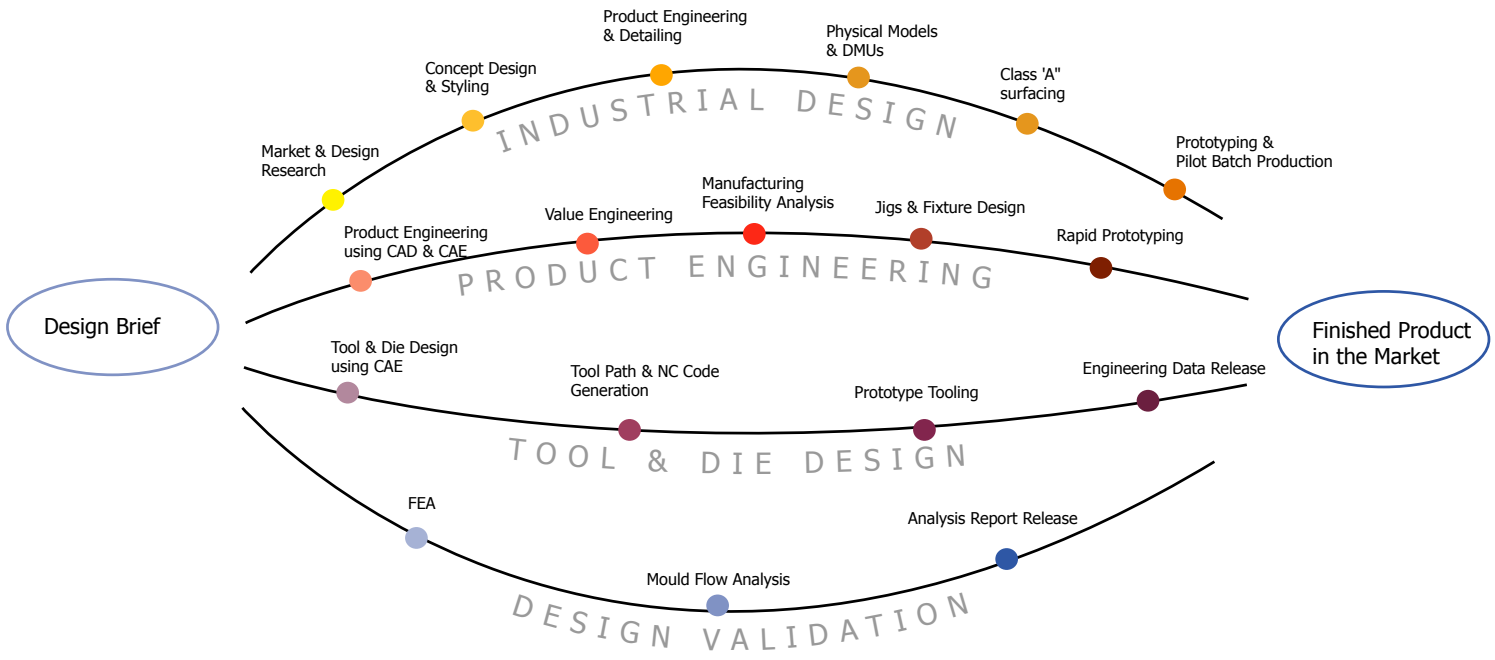
- Meshing
- Structural Analysis
 - Linear Static
 - Non Linear
 - Frequency Response

Mould Flow Analysis :

- Part Validation & Wall Thickness Optimization
- Gate Location
- Flow Analysis
- Packing Analysis
- Cooling Analysis
- Warpage Analysis
- Shrinkage Analysis
- Stress Analysis



Our Process:



Our Design softwares:

- Alias Studio Tools
- Catia V4
- Catia V5
- C3P
- Delcam
- Ideas NX
- Lucas
- Moldflow
- Mechanical Desktop 6
- Maya
- Pro-Engineer
- Solid Works
- Unigraphics NX

MIND could take up a project at any stage in the above mentioned Product Development Process, and take it to completion, as per your requirement.

Let's collaborate...

MIND's Engineering and Design Outsourcing solution is a comprehensive design & development service for the manufacturers of vehicles, vehicle sub-systems, consumer electronics and home appliances.

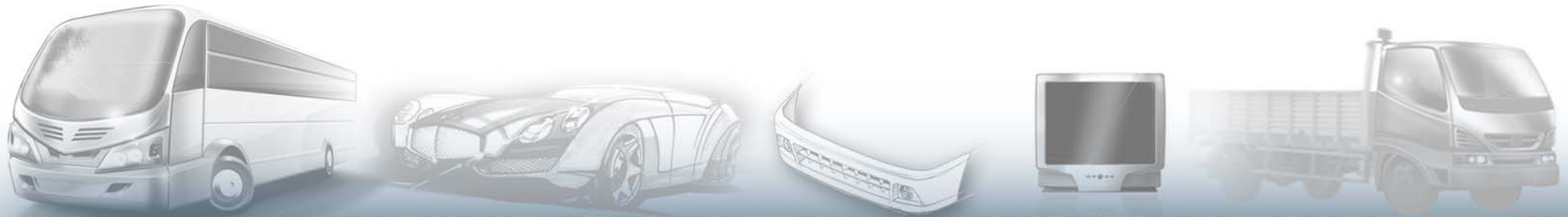
We can translate your customer's expectations into product specifications.

We develop multiple design concepts which gives you an opportunity to accurately visualize alternative product concepts and choose the best fit.

Benefits of collaborating with MIND

- complete engineering & design services under one roof
- product development facilities from concept to prototype batch production
- multi CAD environment to suit your requirement
- faster product development cycle
- efficient project management
- real time project monitoring
- strong manufacturing support





call MIND for your next Engineering & Design requirement

Contact :

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• Industrial Design • Product Engineering • Tool & Die Design • Design Validation