Tech Mahindra is a leading global business and information technology services company, part of the $15 billion+ Mahindra Group, a global industrial conglomerate and one of the most respected automotive groups in India. It has 150+ customers (25 of whom are FG500) and is served by a team of 8000+ Associates including 750+ manufacturing domain and subject matter experts specializing in specific products or processes.

To cater to vertical specific needs, the Manufacturing Practice is structured to focus on the following sub-verticals namely Automotive, Aerospace and Defense, Discrete and Process.

Our value proposition lies in offering end-to-end support (from Design to Manufacture) across the Manufacturing value chain, leveraging the synergy with Mahindra Group’s strong manufacturing DNA for sourcing and manufacturing of components.

This enables us to offer true value differentiators such as Art-to-Part, Part-to-Production, Production-to-Service, Integrated Engineering Services (IES), NMACS (Network, Mobility, Analytics, Cloud, Security).
Discrete Practice
Discrete has been Tech Mahindra’s flagship sub vertical that provides dedicated IT, Engineering & Consulting solutions that meet the specific requirements of OEMs and their supplier community. We have over 2 decades of experience working with Automotive Companies. The unit integrates its in-depth knowledge of technology platforms, understanding of business needs and world-class delivery capability, coupled with its partner eco-system to offer end-to-end IT and engineering solutions.

Tech Mahindra’s Discrete Manufacturing practice has more than 100 domain consultants, 300 Subject matter experts and solution architects and 2000+ Technical consultants. We serve 4 of the top 10 Electronic Consumer Goods Manufacturers, 6 of the top 10 automotive clients and 3 of the top 10 Auto suppliers.

Tech Mahindra realizes that different customers require different types of engagements. This is reflected in the various strategic offerings (GDC, Joint Ventures and Project Management) Tech Mahindra offers to its customers.

Delivery capability
- Dedicated vertical business unit to serve the Automobile and discrete industry customers
- Dedicated global practice with over 3500 Associates.
- Long, trusted relationships with global discrete OEMs and suppliers
- Manufacturing Global Innovation Centre (MaGIC) focused on collaborative innovation and solution building
- Capability to handle large scale engagements

Discrete engineering practice highlights
- Expertise in Mechanical, Electronics, Mechatronics and software engineering capabilities
- Expertise in complete product development life cycle
- GENIVI membership
- Industry leading practices: Safety & Reliability, Value Engineering and Predictive Design methodologies, Design for Six Sigma, Design for Manufacture, etc.
- Physical laboratory infrastructure for prototyping, design simulations and validations
- Standards
  - ISO 26262 for safety
  - MISRA for embedded software

OUR SERVICE OFFERINGS CUT ACROSS THE ENTIRE MANUFACTURING VALUE CHAIN

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<th>Supply Chain</th>
<th>Manufacturing</th>
<th>Sales &amp; Marketing</th>
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<td>• Mechanical Engineering</td>
<td>• SCM Visibility Solution</td>
<td>• Shop Floor Automation</td>
<td>• Order to Delivery and order management</td>
<td>• End to End warranty management offering</td>
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<tr>
<td>• Electronics &amp; Embedded engineering</td>
<td>• Warehouse / Inventory Management solutions</td>
<td>• Shop Floor to Top Floor Integration</td>
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<td>• Plant engineering</td>
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<td>• Manufacturing Operations Management</td>
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<td>• APQP</td>
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Enterprise Business Solutions (SAP, Oracle etc)
End to End BI & Analytics Practice
End-to-end Enterprise Mobility Capabilities
Full Suite of IT applications & infrastructure services

Discrete Solutions Gallery
Integrated Warranty Management Solution
- A framework that addresses the entire Warranty Management and Services chain
- With a Business Rules engine assists to craft solution to newer problems as it comes
- Configurable overarching BPM based solution

Advanced Product Quality Planning
- A framework of procedures and techniques used to develop products in the industry
- Web based solution, with a rich and dynamic UI enables flexibility in data capture. People across regions can log into the system.
- Work-flow based closed loop solution with automated case tracking and management extends across the enterprise with process driving a case forward. The rules apply the right conditions that address the evolving context of the case.
EnterpriseXpert, Powered by iDecisions™
- Pre-built BI solution with rich domain specific business content ensuring foolproof BI implementation with reduced timelines
- Incorporates industry best practices in KPIs, analytical templates and dashboards
- Offered on Cloud and Mobile platform

Technical Publication
- We engage in a wide range of Technical Publication Processes from legacy data conversion and revisions to existing data, to the development of new engineering documentation viz. Technical Manuals, Technical Illustrations, intricate shop floor work instructions and assembly & disassembly processes.

Knowledge Based Engineering
- Knowledge Based Engineering helps capture of unstructured Engineering knowledge in an organization and creates repeatable methods by the development of custom engineering applications or customizations on commonly available PLM products. We have experts from various disciplines of Engineering coupled with knowledge of IT, thoroughly trained on various CAD/CAM/CAE tools with rich experience in CAD customization, Design automation and Engineering Application Development.
- KBE Applications developed by Tech Mahindra can not only help capture the knowledge of experienced designers but help improve time to market, ensure designs that are right first time, as well as help promote innovation.

Manufacturing Execution Systems
- IT enablement of core MES processes at the shop floor spanning across production, inventory, quality and maintenance.
- Tech Mahindra’s MES approach helps manufacturers manage bulky and complex raw data and transform it into real time information/business intelligence.
- Through focused analysis of processes and customer requirements, we evaluate the potential for optimization. Then, we prepare and implement concepts based on MES standard products. During implementation, we measure our project management success in terms of strict cost controls, precise adherence to deadlines, and our ability to fulfill our customers’ requirements.

Enterprise Mobility for Manufacturing
- Tech Mahindra’s Enterprise Mobility group focuses on mobility solutions and services, supporting enterprises and manufacturing companies across the mobility journey from enablement to solution development to assurance and maintenance.
- Joint effort from Tech Mahindra’s Automotive sub vertical, Manufacturing Global Innovation Centre (MaGIC) and CanvasM in leveraging enterprise mobility in Automotive value chain (Product development, Supply chain, Manufacturing, Sales, After sales and business support functionalities).

Mobile 3D Apps
Breakthrough technology that enables rendering 3D images with very low footprint on mobile devices such as tablets and smart phones. It allows for interaction with the 3D model and gives an enhanced use experience. Some of the use cases are: training for technical staff, Virtual dealership, electronic catalogue etc.

MANUFACTURING GLOBAL INNOVATION CENTRE (MAGIC)

Tech Mahindra has invested in MaGIC to build solutions and IP specific to the discrete manufacturing sector, thereby providing additional value to its customers and at the same time, enhancing competency of the Practice.

MaGIC comprises of dedicated physical infrastructure wherein groups of technology specialists apply cutting-edge technology for creating appropriate prototypes as proof of concepts, and industry specific business solutions.
INFRASTRUCTURE - ENGINEERING TECHNOLOGY LAB

- Participation in Industry Forums
- ECVIS
- Raid
- DMS

- Infuse Domain Knowledge
- Learning CDs
- Business Analysts Program
- Functional Training
- Requirement Understanding & Value Addition in Projects
- Knowledge Management

- Benchmark Internal Competency
- Process Standardization & Maturity Improvement
- Map Customer Process

- Domain experts
  - Domain experts
  - Industry experience
  - Project experience

- Technology experts
  - Technology experience
  - Project experience

- Process experts
  - Delivery experience
  - Best Practices

- State of the art Manufacturing Lab to spearhead research and innovation activities, as a frontrunner for resolving customers’ business problems
- Show case of end-to-end TechM capabilities in manufacturing
- Proven governance model for tracking and monitoring output towards Technology, Process and Delivery Excellence

PRODUCT DEVELOPMENT lab in Hyderabad for
- Electro-mechanics
- Robotics
- Pneumatics
- Hydraulics
- Mechanical
- Manufacturing
- Embedded Verification Validation and Testing

EXCLUSIVE VALIDATION CENTRE for a Global Consumer Products major in Hyderabad

DEDICATED LAB for Electronic Systems in Bangalore

Contact us at connect@techmahindra.com