



Intelligent Data Acquisition and Control System (iDACS)

Next Generation Smart Manufacturing Suite
Commensurate with Industry 4.0

iDACS is Industry 4.0 enabled MES which is built on the most practical use cases learnt while supporting 270+ plants of Motherson Group across the globe.

iDACS – A highly configurable Manufacturing Execution System which connects things, data, process and people, will bring the production, downtime, quality data on real-time basis which will help managers to take quick decisions.

Its hybrid architecture of running application on the machine/assembly station gives the advantage of handling short cycle time products.

From an automotive safety critical part manufacturer, India *“integrating with ERP, machines, people, we are able to achieve the complete shop floor control with single system existing on Floor, which covered GATE IN to GATE OUT material, processes”*

INDUSTRY 4.0 CAPABILITIES



MES: Connects your shop-floor with your top-floor



IoT: Data collection using sensors, PLCs, actuators, RFIDs, barcodes



Cloud: Hybrid architecture that it can be hosted on Cloud



Analytics: Factory analytics covering predictive, prescriptive with AI and ML capabilities



Simulation: Digital twin using virtual factory to design, define and simulate

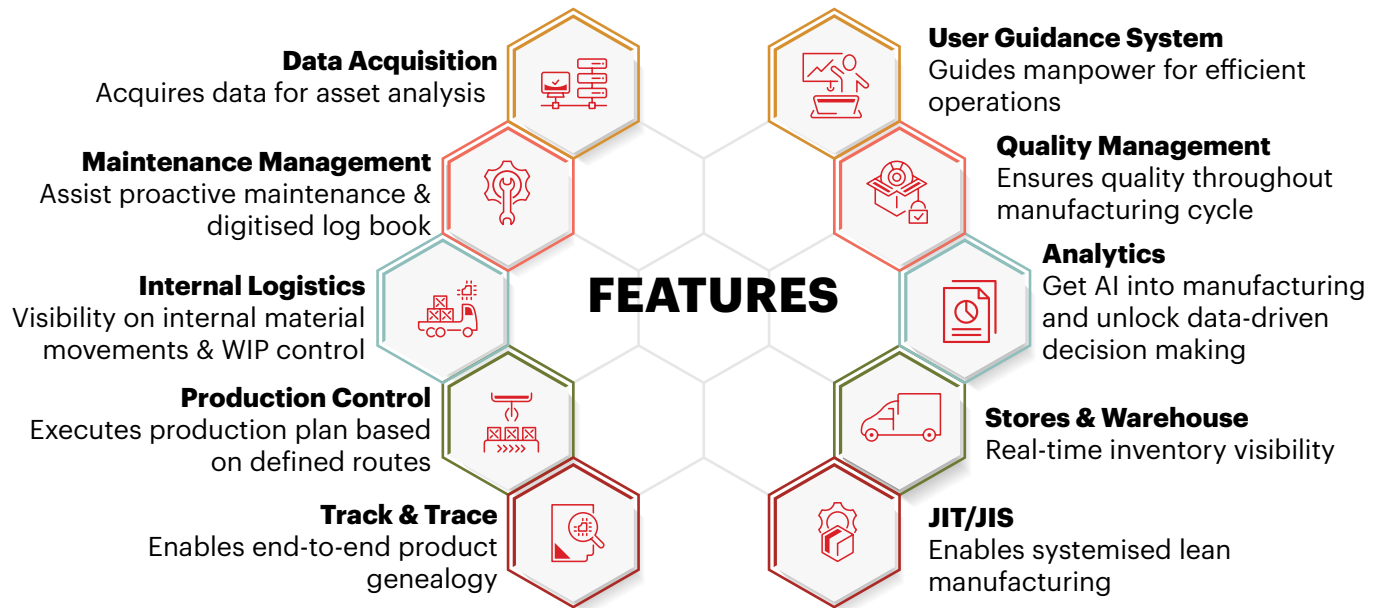


System Integration: API enabled integration



Augmented Reality: Vision based EOL testing

Our Offerings



Benefits Delivered

Modular – Integrated – ERP & Hardware Agnostic – BYOF (Build Your Own Form)

- **10%** manpower utilisation improvement
- Enables quicker decisions
- **60%** improvement in operator performance
- **20%** productivity improvement
- **0%** Wrong assembly, wrong dispatch
- **25%** reduction in rejections, rework
- Hybrid methodology of machine integration
- Digital work instructions
- Production control – MBOM validation, route enforcement
- Real-time production, downtime, rejection information
- Right material to right machine at right time
- Augmented Reality & vision based EOL inspection
- Rule engine to take decisions on machine parameters
- Production meeting with true data, workflow based decisions
- Result & parameter based analytics



Why Motherson Technology Services?



300+ Sites

Supported Globally for Manufacturing Systems



Quality

Certification-ISO 9001, 20000, 27001 CMMI level 5



10000+

Devices Connected



Microsoft Azure

Cloud, Edge Validated Architecture



Experience

Intricate understanding of customer's diverse manufacturing environments & complex needs across different geographies



Rapid

Implementation



24 X 7

Support

Success Stories



50% reduction in manpower savings zero wrong dispatches



60% improvement in operator efficiency zero mistake



50% improved productivity corrected Feeding times



99% reduction in wrong assemblies/ packaging controlled rework

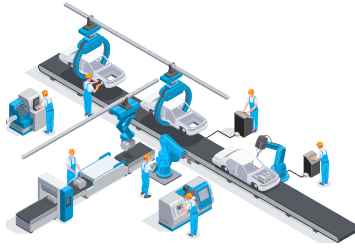


60k USD p.a. on manpower savings utilisation improvement by 10%

Virtual Factory

Technology Partners

Design virtual plant



Define parameters to simulate



Allows you to create & simulate the data injection to test the application, which results in less downtime of the machine while implementation



Notes



Founded in 1975, Motherson Group is an industry leader and one of the world's largest manufacturers of components for the automotive and transport industries. The group's diversified portfolio makes it a complete solutions provider across the globe. Motherson Group serves its customers with a wide array of products and services through multiple business divisions including wiring harness, vision systems, modules and polymer, technology & software, aerospace, health & medical, logistics, retail, and metal products. Motherson Technology Services is a global technology company that offers a consulting-led approach with an integrated portfolio of industry-leading solutions that encompass the entire enterprise value chain. Our technology-driven products and services are built on two decades of innovation, with a future-focused management philosophy, a strong culture of invention and co-innovation, and a relentless focus on customer-centricity. A CMMI Level 5 company, we have delivered best-in-class services to 430+ clients in 41+ global locations across all continents. We are a business division of Motherson Group, one of the largest manufacturers of components for the automotive and transport industries worldwide with 150,000 employees across the globe.

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