



## 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

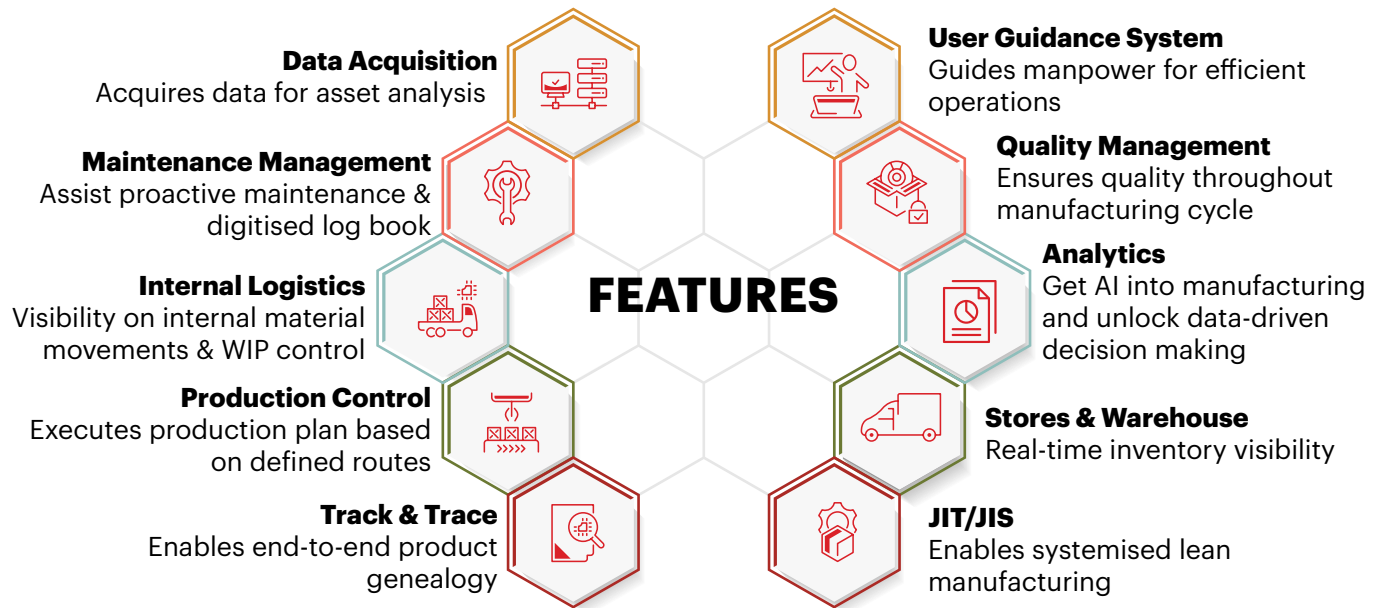


**System Integration:** API enabled integration



**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

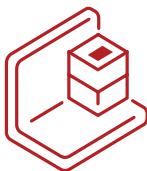
## Success Stories



**50%** reduction in manpower savings zero wrong dispatches



**60%** improvement in operator efficiency zero mistake



**50%** improved productivity corrected Feeding times



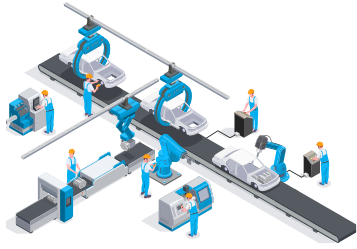
**99%** reduction in wrong assemblies/ packaging controlled rework



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

# Virtual Factory

## 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

# Technology Partners



Founded in 1975, Motherhood Group is an industry leader and one of the world's largest manufacturers of components for their automotive and transport industries. The group's diversified portfolio makes it a complete solutions provider across the globe. Motherhood 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. Motherhood 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. An SEI 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 Motherhood Group, one of the largest manufacturers of components for the automotive and transport industries worldwide with 150,000 employees across the globe.

Visit us online at <https://motherhoodtechnology.com/en-gb/>

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