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

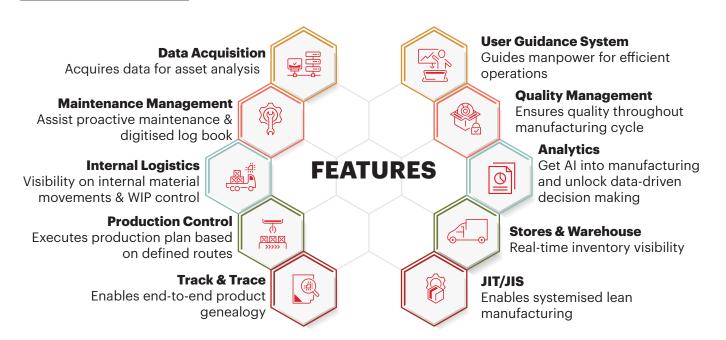**Simulation:** Digital twin using virtual factory to design, define and simulate

System Integration: API enabled integration

Augmented Reality: Vision based EOL testing

Our Offerings

FEATURES

Data Acquisition
Acquires data for asset analysis

User Guidance System
Guides manpower for efficient operations

Maintenance Management
Assist proactive maintenance & digitised log book

Quality Management
Ensures quality throughout manufacturing cycle

Internal Logistics
Visibility on internal material movements & WIP control

Analytics
Get AI into manufacturing and unlock data-driven decision making

Production Control
Executes production plan based on defined routes

Stores & Warehouse
Real-time inventory visibility

Track & Trace
Enables end-to-end product genealogy

JIT/JIS
Enables systemised lean manufacturing

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

Information	**Suggestion**	**Execution**

Why MIND UK?

300+ Sites
Supported Globally for Manufacturing Systems

10000+
Devices Connected

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

Quality
Certification-ISO 9001, 20000, 27001 CMMI level 5

Microsoft Azure
Cloud, Edge Validated Architecture

Rapid
Implementation

24 X 7
Support

Success Stories

50% reduction in manpower savings zero wrong dispatches

50% improved productivity corrected Feeding times

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

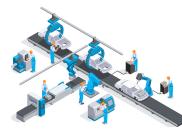**60%** improvement in operator effiency zero mistake

99% reduction in wrong assemblies/ packaging controlled rework

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

Microsoft

aws

SIEMENS

intel

mi-xlab

ZEBRA

Notes

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motherson

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 Infotech and Solutions UK Limited (MIND UK), 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, MIND has delivered best-in-class services to over 200 customers in 47+ global locations across all continents. MIND is a division of Motherson Group, one of the largest manufacturers of components for the automotive and transport industries worldwide with 135,000 employees across the globe.

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