

Features:

- Modular System
- Energy Management
- Augmented Reality
- Manufacturing Execution System
- Over All Equipment Effectiveness (OEE)
- Management Information System
- Intelligent Maintenance system

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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Application :

The Modular Manufacturing System with Industry 4.0 is a miniature Smart Factory Automation System which demonstrates the application of latest manufacturing processes and Technologies in the complete value chain. It enables user to learn and understand the following technologies connected to Industry4.0

- Digitisation of entire value chain
- Concepts, Architecture and design of IIoT systems
- Simulate and develop the concept of various integration associated with Industry 4.0 such as Vertical, Horizontal, Integrated & Digital workforce
- Remote monitoring and controlling the machines in real time
- Experiencing AR (Augmented Reality) through Mobile application
- Data communication to cloud through IOT Gateway module and Kepware (OPC)
- Development of web applications for different scenarios

Technical Specifications

Size (L x W x H) in cm	135 x 70 x 150
Installation	Vertical
Medium	Compressed air
Operating Voltage (Primary)	230V AC, 50Hz
Power Consumption	1KW (1.4 KVA)
Operating Voltage (Secondary)	24V DC
Material	CRCS, Aluminium, SS

Function :

The Modular Manufacturing System with Industry 4.0 is a miniature factory which includes the industry standard processes such as Feeder and Sorting.

This system produces orders executed from Manufacturing Execution System (MES) which is an interface for the complete value chain management.

The feeder station feeds the work pieces to the sorting station. The sorting station segregates the work pieces based on the RFID tag.

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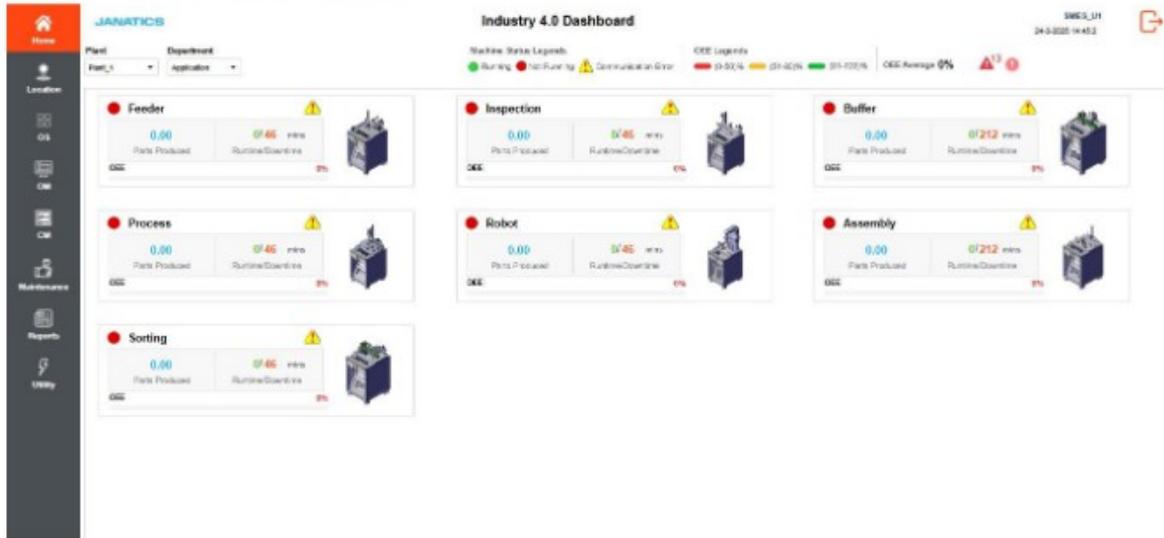


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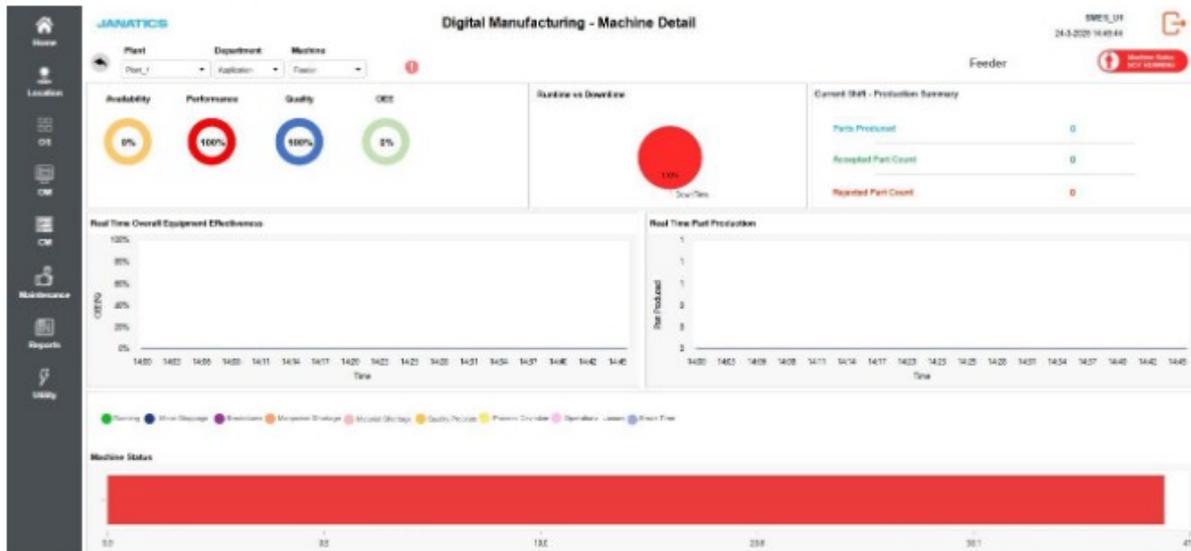
System Features :

1. PRODUCTION MONITORING



Production monitoring enables to understand the Productivity, Run Time & Down Time of the various machines available in the factory.

2. OVERALL EQUIPMENT EFFECTIVENESS - OEE



OEE (Overall Equipment Effectiveness) enables to measure and monitor the Performance, Quality & Availability of the Individual Machines and control quality during the manufacturing process

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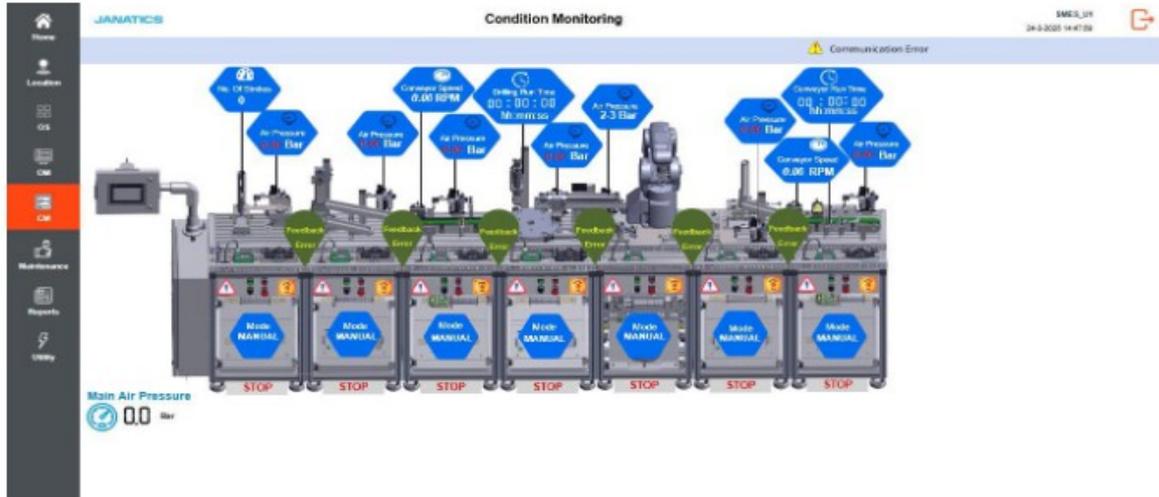


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Order Code – 25268654.4.9
 Modular Manufacturing System With
 Industry 4.0 Combination Of Stations (1 & 5)

3. MACHINE MONITORING



Condition monitoring enables to monitor the real time data of the machine through which down time can be reduced.

4. ENERGY MANAGEMENT



Energy management enables us to monitor and record the trend of Electrical and Air consumption of the machine.

5. INTELLIGENT MAINTENANCE SYSTEM



Intelligent Maintenance System enables to monitor the Breakdowns

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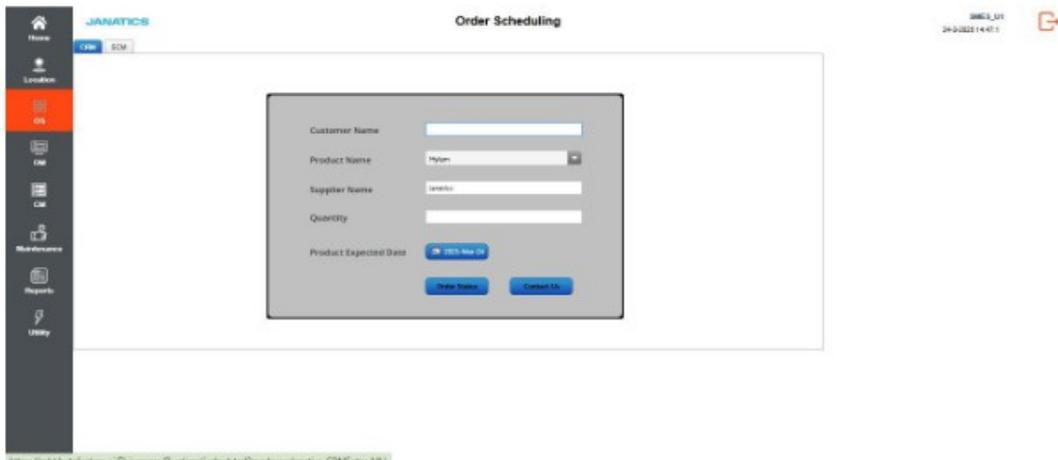


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7. MANUFACTURING EXECUTION SYSTEM



Manufacturing Execution system enables to monitor the complete customer value chain right from order to cash flow

8. AUGMENTED REALITY – TAB



Augmented reality enables to see Real-time data, assembly instruction, step by step instructions, and machine to design visualization.

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