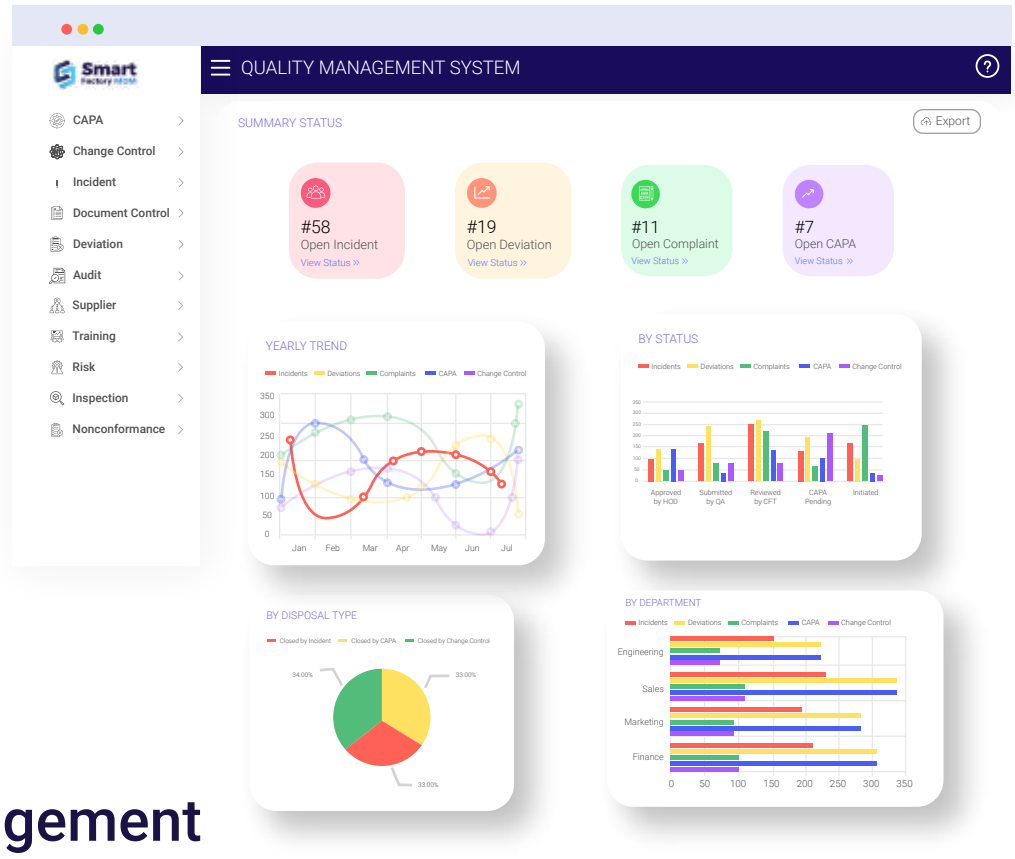
Smart Factory MOM

QMS Module

Ensure Quality at Every Step. Reduce Defects. Achieve Consistent Production Excellence.



Overview

The QMS (Quality Management System) module of Smart Factory MOM enables manufacturers to manage, control, and improve product and process quality across the entire production lifecycle.

It digitizes quality processes, standardizes execution, and provides real-time visibility into quality metrics, helping manufacturers reduce defects, ensure compliance, and deliver consistent, high-quality output.

Key Challenges in Quality Management

Modern manufacturers often struggle with:

- Manual and paper-based quality processes
- Inconsistent execution of standard operating procedures
- Difficulty in maintaining compliance and audit readiness
- Lack of real-time visibility into quality issues
- Delayed identification of defects and root causes
- Limited traceability of quality data across production

Smart Factory MOM Quality Management System (QMS)

Smart Factory MOM QMS module delivers a digital quality framework that enables manufacturers to:

- Standardize and digitize quality processes
- Monitor quality in real time across production
- Identify defects and root causes early
- Ensure compliance with industry standards
- Drive continuous improvement across operations

Key Features

1. Digital Operating Method Sheets (OMS)

Enable step-by-step digital work instructions that guide operators through processes, ensuring standardized and error-free execution. OMS acts as the backbone of quality control within Smart Factory MOM.

2. In-Process Quality Monitoring

Track quality parameters during production to detect deviations early and prevent defects before they escalate.

3. Non-Conformance Management

Capture, track, and manage quality issues across production to ensure quick resolution and improved process control.

4. Root Cause Analysis

Identify the underlying causes of defects and process deviations to eliminate recurring issues and improve overall quality.

5. Process Standardization & Control

Ensure consistent execution of processes across operators, shifts, and plants with standardized workflows and instructions.

6. Real-Time Quality Visibility

Gain instant insights into quality performance across machines, lines, and production stages through intuitive dashboards.

7. Audit & Compliance Support

Maintain digital records and ensure audit readiness with complete traceability of processes, actions, and quality data.

8. Quality Analytics & Reporting

Analyze trends, identify improvement areas, and drive continuous quality enhancement with actionable insights.

Key Benefits

1. Improved Product Quality

Reduce defects and ensure consistent output by standardizing processes and monitoring quality in real time.

2. Reduced Scrap & Rework

Identify and address issues early to minimize waste, rework, and production losses.

3. Enhanced Compliance & Audit Readiness

Maintain accurate records and ensure compliance with industry standards and regulations

4. Faster Issue Resolution

Detect quality deviations early and take corrective actions quickly to minimize impact.

5. Continuous Improvement

Leverage data-driven insights to optimize processes and enhance overall manufacturing performance.

Seamless Integration

The QMS module integrates effortlessly with the following to ensure end-to-end quality visibility, from raw materials to finished goods within a connected manufacturing ecosystem.

ERP systems

IIoT-enabled shop floors

MES and Scheduling modules

OEE and production monitoring systems

Deliver Quality Without Compromise

Standardize processes, eliminate defects, and ensure consistent production quality with Smart Factory MOM QMS module.

Request a Demo

