

Material Management

- Provide end-to-end material management from receiving through production
- Guide dispensing operators through the weighing process
- Audit-ready lot and container genealogy with complete traceability
- Reduce material waste and rework by up to 60%
- Decrease operational cost and increase material utilization to drive profitability



Optimize proper use of all your materials.

Overview

The DeltaV™ Manufacturing Execution System (MES) Material Management module provides a complete warehouse inventory management solution.

Material Management delivers centralized management of all materials and their recipes, including bill of materials and processing instructions.

Supporting the full lifecycle of materials workflow, Material Management is a powerful solution for managing the purchasing, receiving, warehousing, and shipping of materials. With its easy-to-use interface, you can focus on the job at hand, rather than learning complex software.

For those industries under Current Good Practice (cGXP) regulations, Material Management is fully compliant with all cGXP regulations, including 21 CFR Part 11. It provides all the functionality needed to ensure that your most important material assets are tracked and proactively managed.

Benefits

Real-Time Status of Material. Always know the exact status of material inventory and ensure warehouse and production workers will have the most efficient tools to perform their jobs.

Easy Reorder Information. Advanced analytical views allow the rapid determination of what to order and when, status of orders in transit, materials waiting for inspection, and shipping metrics.

Integration to ERP Systems. Asynchronous communication to third-party host computers, including standard interface setups for connectivity to Enterprise Resource Planning (ERP) system, provides easy access to materials inventory information.

Simplify Validation. Since Material Management is a true zero-client, web-based solution, you can quickly install, validate, and deploy the solution to all your users from a centralized server and begin to realize the benefits immediately. Whether tracking hundreds or thousands of materials, you'll be amazed at how quickly and easily you can ensure that all your material management and regulatory needs are met.

Product Description

Material Management provides a complete solution for your material tracking needs. Materials can be tracked at the container and lot level, as well as by the pallet. Lot consumption can be assigned on a cost-center basis. Material adjustments can be made based on potency. It tracks and enforces material movement within the warehouse, supporting picking and kitting processes for operator efficiency. With Material Management, you get automatic notification of expiration of material and tracking of non-production materials.

Bar-coded material identification and handheld devices are supported. Easily view inventory reporting and complete documentation of materials. Additionally, comments and notes can be added and associated with inventory lots. The Material Management solution provides an automated Weigh and Dispense system. Electronic work instructions allow you to manage independent workflows, as well as those associated with equipment events. The solution also includes Message Broker, enabling integration to third party systems including Process Control System, Laboratory Information Management System, Enterprise Resource Planning, etc.

Weigh and Dispense

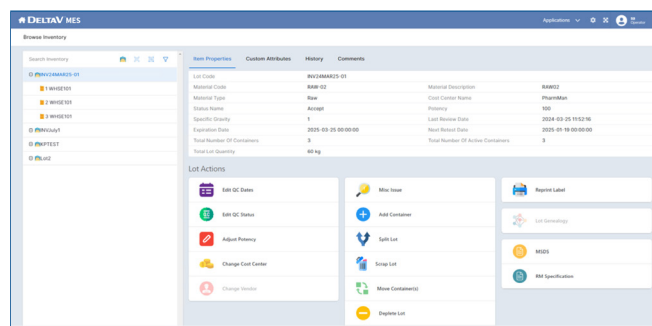
The DeltaV MES Weigh and Dispense module provides manufacturers with advanced electronic management of material dispensing and traceability, ensuring consistency, accuracy, and regulatory compliance. By guiding operators through standardized workflows, it minimizes material variability and human error while maintaining complete electronic records for quality assurance. The module integrates seamlessly with ERP systems, automating inventory updates and eliminating the need for paper logbooks. With features like barcode scanning, weigh-scale interfaces, and wireless handheld device support, it enhances material tracking from dispensing to final use. Designed for both cGXP and non-cGXP environments, the Weigh and Dispense module streamlines operations, improves scheduling, and ensures right-first-time manufacturing with end-to-end traceability and compliance with industry standards.

DeltaV MES

Material Management is part of the DeltaV MES software product which is included in Emerson's DeltaV for Life Sciences software portfolio. Visit our website to see the complete list of DeltaV MES solutions.

General System Requirements

Scalable network solution using Microsoft-based operating system and SQL database with client access via browser.



Material Management makes it simple to manage inventory within the production facility with an intuitive, easy-to-use interface.

Product: Paracetamol

Component: Activated Charcoal

Order :SYN_210928_1

Product Code:4007268

Component Code:3000036

Log Comment:

Operator:oo

Standard Quantity:50.000 kg

Required Qty:50.000 kg

Documents:

Module Type:Solid

Dispensing Module:WHDB001

Tolerance:+50.000/-50.000 kg

Wizard:

Vessel Type:Drum

Scale:WHWC001

Scale Precision:+/- 0.001

Perform Event:

Weighing Panel

Source:180_4576

Select Source

Next Source

Use the Receiving Container as the Dispensing Container?

Source Container

Dispensing Display

Destination Container

Status

Tare Wt:0.000 kg

Scale:20.300 kg

Tare Wt:5.000 ...

Operator Trained:✓

Net Wt:25.000 kg

Remaining:50.000 kg

Net Wt:20.300 kg

Module Ready:✓

Gross Wt:25.000 kg

50.000 kg

Gross Wt:25.300 kg

Module Conditions:✓

Scale Calibrated:✓

20.300 kg | 29.700 kg

0.000 kg

50.000 kg

55.000 kg

Dispense Properties and Scale Control

Source Container

History

Reset Scale

Set Tare

Reset Tare

Dispense

Exit WD

Lot:180_4576

Container:3

Available:25.0000 kg

Allocated:0.0000 kg

Press 'Dispense' or 'Next Source' to accept the dispensing am...

Weigh and Dispense screens make it simple to manage dispensing operations.

Ordering Information

Contact your local salesperson about options for additional information.

Description	Subscription Part Number	Perpetual Part Number	Perpetual Guardian Number
Material Management (MM) Solution	DF1002Sw_YxFYyy	DF1002	DF1002-GS

*w represents the length of the subscription term in years (1, 3, or 5)
*x represents the specific year of the subscription term
*yy represents the two-digit indicator of the time of purchase (e.g. 25)

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