

- 3WS Additional Modules -

3WS has many extra features beyond weighing





50 Sites - 15 Countries - Since 1987

Introduction to 3WS extra modules

The 3WS Dispensing module is usually the initial program installed at each site. Many other modules have been developed, which are progressively installed at validated sites.

The additional modules include Raw Material barcode labeling, Manufacturing confirmation, Packaging confirmation, Finished Goods barcode labeling, Lotno Location Management, Material Scheduling, Labour Costing, Interfaces to other MRP/LIMS systems.

Other new modules are under development.

----- LIST OF MODULES -----

DISPENSING BARCODE LABELS MANUFACTURING **PACKAGING** LABOUR COSTING RF Scanning MATERIAL SCHEDULING LOTNO LOC MOVEMENT PLC MANAGEMENT MANUFACTURING EXECUTION work instructions, sequencing FINISHED GOODS LABELS **INTERFACES** AUTOMATIC AUDIT TRAIL

SYSTEM VALIDATION

barcoded labels for Lotnos, Orders, Phases, etc confirms all dispensed items, during mixing issue of components, stock returns, re-label of all actions, by user, time, job, product from production plan, includes orders movements, stocktake, order picking of bulk dispensing & manufacture LABEL CLAIM FINAL PRODUCT guarantees Mineral & Vitamin quantities barcoded TUN labels for shippers, cartons download & uploads between 3WS & SAP automatic FDA history of all data changes VMP, IQ, OQ, PQ protocol is off-the-shelf

campaign weighing, potency, labeling, counting

BARCODE LABELLING

You can print barcoded labels from the Lotno (Goods Inwards), Dispensing, Packaging, Finished Goods modules.

You can print User ID labels, with barcoded UserID and optionally a barcoded, encrypted Password.

For Location management, you can also print Location barcodes.

Labels print in non-English can characters, as in the label example below.

LOT NO LABEL



LotNo: 000812

Material: 400006

强腐蚀酸 (ASCORBIC ACID)

Supplier: GLOBAL SUPPLY COMPANY Supplier Batch: AB812

FINISHED GOODS SHIPPER

NATURE'S WAY **BIO - ECA STACK TABLETS 60'S** 60 units (20 x 3) Ref: 543082 Temp: Store Below 30'c

19323503030823

MANUFACTURING VERIFICATION

When dispensing has been completed, the MFG module ensures by bar-code scanning the dispensing labels, that all ingredients dispensed are added to the correct receptacle, such as mixing bin, hopper, vacuum transfer tank.

MFG also guarantees that previously dispensed materials are mixed in the correct process. The Lotno used during Dispensing is rechecked to ensure Lotno Use-By-Date and Lot Status are still OK to use.

MFG can use Radio Frequency (RF) hand-held scanners or PC-based screen functionality, to suit each site's requirements.

DISPENSING Check - Scan Lotno barcode



PLC/Bulk Hopper Control

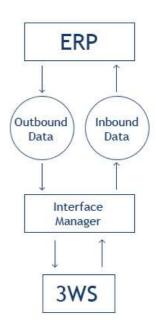
Using scanners, load cells and a PLC system, 3WS can control and verify the dispensing of bulk materials from hoppers or into vacuum transfer systems..

PLC functionality can be initiated and checked by 3WS. All User, date-time, Lot, Tank history can then be recorded for each Work Order of manufactured product.

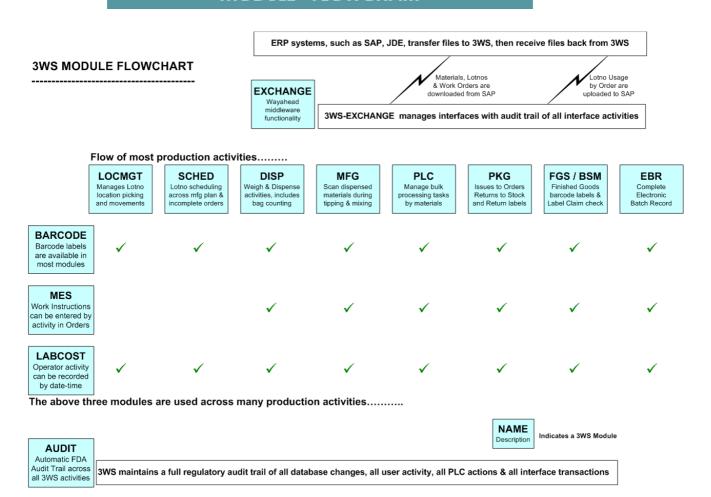
Interfaces to ERP Systems

We have developed interfaces to download LotNo details, Work Orders, Material Names, from existing systems, as well as upload actual material usage details back to ERP systems, such as SAP.

The data transferred between 3WS and other systems can be XML data, flat-files or shared database tables.



MODULE FLOWCHART



Automatic Data Audit Trail

This module will retain a complete regulatory audit trail of all database changes, across all 3WS modules, including any external program access, even 'hacking'. A copy and enquiry facility is available for local and offsite (ie. FDA) review, which is 21CFR11 compliant.







































3WS BENEFITS

- Inventory levels reduced
- Material handling activities reduced
- Operator label printing eliminated
- Clerical data entry eliminated
- Rework management improved
- Potency management improved
- Rejected work orders eliminated
- Material scheduling available, with re-order reports
- Productivity increased across many activities
- Manages Packaging stages
- Manages Manufacturing / Mixing stages
- Manages Lotno / Location movements, stocktake
- RF Scanning of labour costing data, by user, activity, job, time
- Scheduling of future production plan, includes WIP orders
- Barcode labels for Lotno, Weighing, Components, Shippers, etc

QUALITY CONSIDERATIONS:

- Quality Control guaranteed for all processes
- FDA / PICS / GAMP Compliant, fully validated system
- Complete Audit Trail across all modules, viewable offsite
- Production process is enhanced to create an Electronic Batch Record (EBR) automatically, including work instructions



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