# Manufacturing

For **Sage** 300

## Quality Control
For **Sage** 300

Automation Made Simple
**AutoSimply**

# Overview

AutoSimply Manufacturing solutions help automate your manufacturing process in simple and practical ways.

Designed exclusively for Sage 300, the AutoSimply manufacturing solutions integrate into your ERP system with familiar business process flows, making use of data in Inventory Control (I/C), Purchase Orders (P/O) and Order Entry (O/E).

## Modules

### Manufacturing Order

Designed for small to medium-sized enterprises, Manufacturing Order enables an efficient production flow covering manufacturing orders, work in progress, routing cost calculation, material consumption, material scrap and item substitution and order closeout.

### Production Planning

As a production scheduling and materials requirement planning solution, Production Planning generates full scale MPS and MRP plans based on manufacturing and BOM information, as well as sales, stock and purchase information in Sage 300.

### Shop Floor Control

Shop Floor Control records detailed production data from material issuance to the finished goods being produced by recording time and shop transactions during production process for efficiency and utilization analysis.

### Quality Control

Many businesses require inspection of incoming and manufactured goods. Quality Control automatically puts stock in quarantine for inspection, assign testers, track testing results and acceptance and rejection reasons, and move stock to the intended warehouse location once accepted.

## Key Features

### Manufacturing Order

#### Super-charged BOM structure
- Unlimited number of BOM codes and versions per product
- Up to 16 BOM levels
- Detailed item routing information
- Supports unlimited number of co-products

## Increased accuracy of production cost calculation

- Rolled up standard item costing from Sage 300 Inventory Control upon finished goods receipt
- Costs can be based on material and resource requirements, including labour and overhead costs
- Accurate costs adjustments upon closeout of manufacturing orders

## Operation-based transactions

- Sub-divide production floor into work centres used by BOM operations
- Transactions such as material issuances, WIP consumption or scrap can be performed by operations

## Easier monitoring of WIP

- Materials issued from I/C are tracked as WIP
- WIP consumption and scrip transactions track WIP movement as it happens
- Unconsumed WIP are automatically allocated upon closeout of manufacturing orders

## Backflushing

- Create material issuances and finished goods receipts in one step if production time is short

## Kanban

- Create manufacturing orders, issuances and receipts in one step for Just-in-Time (JIT) production

## I/C stock balance and history

- All transactions are posted directly to I/C stock and history tables

## Serialized inventory and lot tracking

- Full support of serial and lot numbers for I/C items
- Define lot and serial numbers for materials issued, returned and finish goods received in the warehouse

# Production Planning

### Seamless Sage 300 and Manufacturing integration

- Automatic extraction of stock, sales orders, purchase orders and manufacturing data that are already in your ERP system

### Realistic plans with flexible parameters

- Generate realistic MRP plans considering safety stock levels, minimum order quantities by vendor, order multiples, and manufacturing and purchasing lead times

- Input, import and generate forecasts for use during planning runs. Plans utilize actual sales orders to consume sales forecasts

### User defined location networks

- Define scope of distribution by grouping I/C locations to form networks
- Generate MRP plans based on networks rather than individual warehouse locations

### Plan by buyers/planners

- Define unlimited buyers for materials and planners for manufactured products
- Plan by buyers or planners for their responsible products

### Net of Change planning run

- Supports both regenerative and net of change planning logic

### Automatic generation of manufacturing orders and requisitions

- Planned orders can be confirmed and automatically converted to purchase requisitions and manufacturing orders

# Shop Floor Control
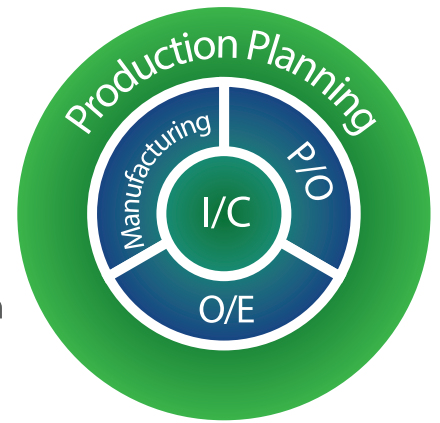
### Measure production efficiency with time entries

- Record and analyse actual operation times to measure efficiency of the production processes
- Times entries include time for setup, runtime, clean-up, re-work, downtime and indirect stoppages, and include shop operators and shift data to measure performance per

### Operator/shift

- Post time entries against products, operations and work centres

### Analyse utilization

- Analyse utilization with time entries posted against work centres and stations

## Automatic WIP consumption

- WIP quantities are consumed based on receipt and scrap quantities in shop floor entries
- Provides real-time WIP balance information during the production process

## Optional resource cost allocation

- Allocate actual resource costs to manufactured products based on proportional labour hours recorded in shop floor entries

# Quality Control

## Automatic quarantine of stock for quality control

- Stocks are automatically transferred to QC locations upon goods receipt or after production based on rules set up for items, item categories and/or suppliers
- Items under inspection cannot be used for sales or production
- Current stock in I/C can also be selected for re-inspection



Works with P/O & I/C even w/o Manufacturing
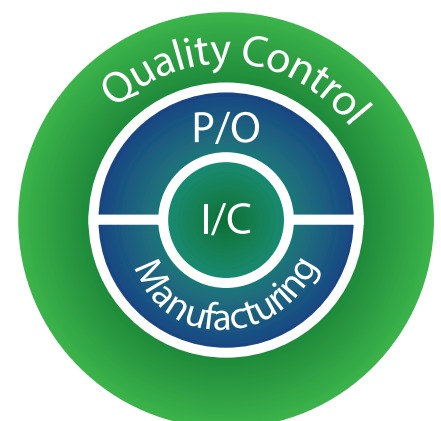
## Visibility of quality control status

- Management can have visibility on statuses of all goods under inspection

## Complete quality control results

- Record tests results of items, and reasons for accepting or rejecting the goods or products
- Attach documents as proof of inspection and for certification purpose



## Analyse quality data

- Analyse historical data based on items, suppliers and manufactured goods

# Barcoding for Sage 300

AutoSimply Barcode brings warehouse transactions to the front-line when and where they happen and it integrates seamlessly to Manufacturing and Shop Floor Control as well. Create production related transactions on handheld devices or tablets and post them directly to Sage 300 real-time.

## Barcode integration

### Manufacturing (M/F)

- Raw material issuance and return
  - • Issue material for production based on a manufacturing order.
- Finished goods receipt and return
  - • Receive finished products based on a manufacturing order.
- Backflush
  - • Create issuance and receipt in one step based on a manufacturing order.
- Kanban
  - • Create manufacturing order, issuance and receipt in one step.
  - • For goods produced that are not based on manufacturing orders, and transactions are recorded after production.

### Shop Floor Control (S/C)

- Record time spent for setup, runtime, clean-up, re-work, downtime and stoppage during the production process.
- Record and post time used instantly instead of using paper log books

For more details, check out the Barcoding for Sage 300 brochure.

# Trading MRP for Sage 300

## Overview

Trading MRP is a purchasing or replenishment solution for small to medium-sized trading enterprises. Companies can generate full scale MRP-based purchasing plans for all of their inventory items. By planning ahead, use of Trading MRP minimizes inventory stock while preventing item shortages. Inventory planners spend more time planning instead of just tracking, compiling and calculating stock requirements.

Trading MRP is designed for companies to plan for stock purchasing without manufacturing.

## Key features

### Seamless Sage 300 integration
- Automatic extraction of stock, sales orders and purchase orders that are already in your ERP system
- Supports I/C BOM and kitting items

### Realistic plans with flexible parameters
- Generate realistic MRP plans considering safety stock levels, minimum order quantities by vendor, order multiples, and purchasing lead times
- Input, import and generate forecasts for use during planning runs. Plans utilize actual sales orders to consume sales forecasts

### User defined location networks
- Define scope of distribution by grouping I/C locations to form networks
- Generate MRP plans based on networks rather than individual warehouse locations

### Plan by buyers/planners
- Define unlimited buyers for materials and planners for manufactured products
- Plan by buyers or planners for their responsible products

### "What if" scenarios
- Generate multiple plans (up to 4) for each distribution network to analyse simulations of different demand-supply variables

### Automatic generation of purchase requisitions
- Planned orders can be confirmed and automatically converted to purchase requisitions
- Supplier price lists in P/O can be fully utilized in conversion of requisitions to purchase orders

# aces

## sage 300 ERP

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