

# Standard ERP

## Production



### **Manage production in a demand-driven environment**

Actively monitor work in progress to avoid cost overruns

### **Graphical scheduling**

Maximize resource utilization with drag-and-drop graphical scheduling

### **Take control**

Optimize production flow by effectively planning and streamline inventory management based on demand and forecasting

### **Accurate Just-in-Time Production**

Track and manage inventory levels and offer reliable promises for delivery

### **Quality Control**

Conduct quality assurance on your products

### **Multi-platform**

Windows, Linux, Mac, Android, iOS



The World's Best Integrated Business Platform

# Optimize your production capacity, from raw materials and assembly to final product

Standard ERP's Production module provides you the tools to manage your manufacturing processes easily and efficiently, including production orders, bills of materials, supply planning and material requirements planning. All processes are integrated within one system.

## Mobility

Standard ERP offers all of its Production features on tablets and smartphones using a complete client, rather than role-based apps, which can include customizations. While mobile, you have access to information such as contacts, status of customer orders, production processes and stock levels. Manage anything from quotations and orders to CRM activities, make calls from server-based data and even open external files. If you store contact data on your server, you can access your entire register feeling secure with the knowledge that if the phone is misplaced or lost, this data cannot be accessed by anyone else.

## Recipes

Standard ERP uses a concept called Recipes for assembly management, bill of materials and formulations. Recipes control:

- which raw materials or subassemblies will be used for finished goods or other subassemblies.
- which resources will be used during the production process for cost accounting.
- the duration of the production process.
- standardized production quantities.

Standard labor, overhead allocations, and any other costs can be included in Recipes. Multi-level assembly reporting includes:

- listings of which raw materials are needed for each

subassembly or finished product, and at which level.

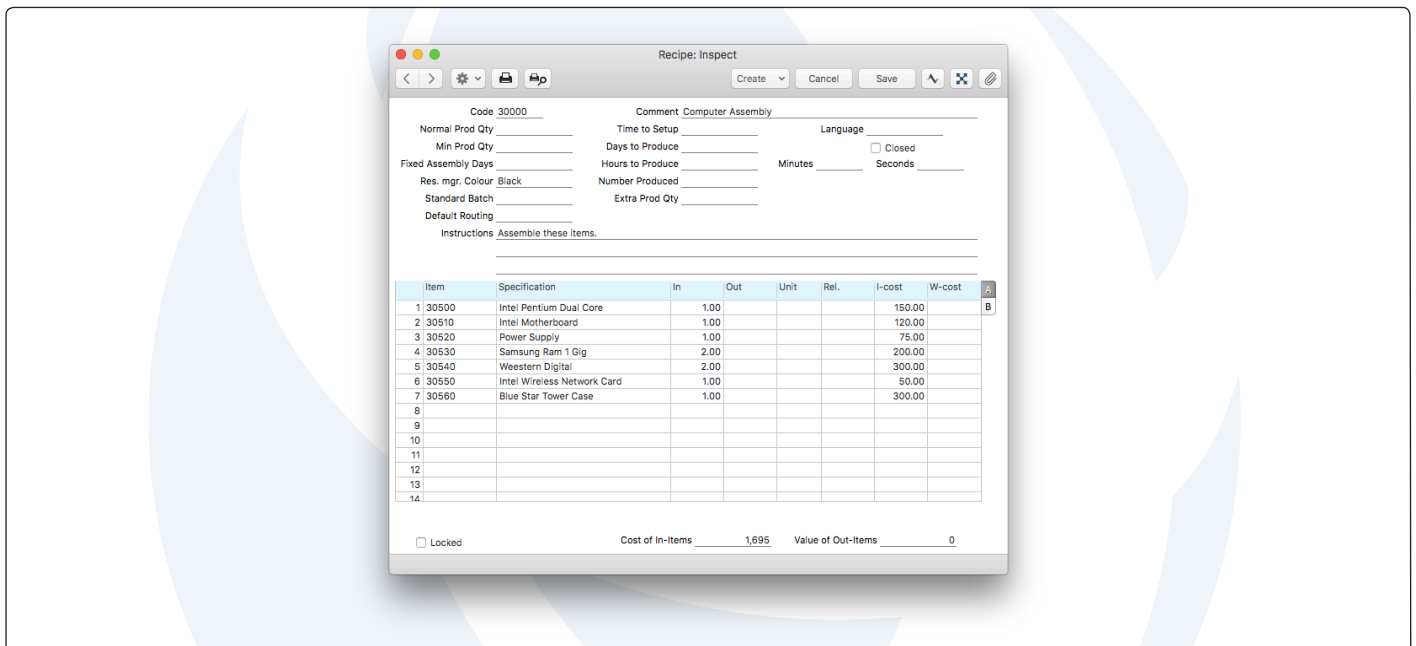
- listings of which raw materials and subassemblies are required for a specific finished product or subassembly.
- which subassemblies or finished items use a specific raw material or subassembly.
- costs associated with each subassembly or finished item.
- how many of a specific subassembly or finished item can be produced.

## Machines, Usage and Capacity Planning

Machines are set up in Standard ERP's Assets module. This provides for a wide range of data to be set for each machine, such as the hourly cost while operating and idling. The Assets module also controls the accounting for machines with different rates for automated depreciation calculations and tax reporting.

To assist in the planning process, you can assign which machines will support the production of each Recipe. If it is ever necessary to produce a subassembly or finished item on a machine other than the default, Standard ERP can be configured to use a different Recipe, thereby reflecting the different speeds and capacities of each machine.

The planning process is brought together by Production Orders. Any work that is to be scheduled will be entered as a Production Order. Standard ERP then automatically allocates Production Orders to default machines, and automatically assigns a place in



the production queue. Both of these allocations can be overridden manually. The schedule for machines can then be viewed from the graphical Resource Planner.

From individual machine records, users can drill down to view and manage specific Production Orders. Rearrange the respective schedule by drilling down and running a routine to reassign Queue Positions (specify which Queue Position to which the Production Order should be assigned), or use the drag-and-drop function to designate another machine.

Production Orders store both the total planned duration of the specific assembly and the actual time taken, the latter being automatically recorded once the Production Order is indicated as complete.

## Production

The Production record in Standard ERP tracks changing inventory levels (decrementing raw materials, incrementing assemblies and finished goods) and any associated accounting. Input how many of a particular Recipe you want to produce and Standard ERP will split serial numbered items into separate lines for each. Serial numbers can be generated automatically for each line as well.

Standard ERP administers wastage by allowing Productions to be discarded. The user is required to choose a justification for the discard from a selection of previously defined reasons. The inspector of each batch is also recorded. Additionally, wastage and by-products can be quantifiable components of a completed production.

Productions can be created automatically from Production Orders. This function, when items are batch tracked, reads batch sizes already predefined in the system. Alternatively, you can extract batches as they are produced, or whenever you need to increment inventory. Assemblies and finished goods can also be "disassembled" - this creates a new Production process by reversing entries from the original order.

For "specials", it is not required to assign a Recipe to a Production process. Entries of raw materials (in) and assemblies/finished items (out) can be made directly to the Production record, thereby reducing duplications between the Recipe and the Production records.

Standard reports answer questions such as:

- Are there enough raw materials to produce a set range of items?
- Which raw material purchases must be made to support a range of items to be produced?

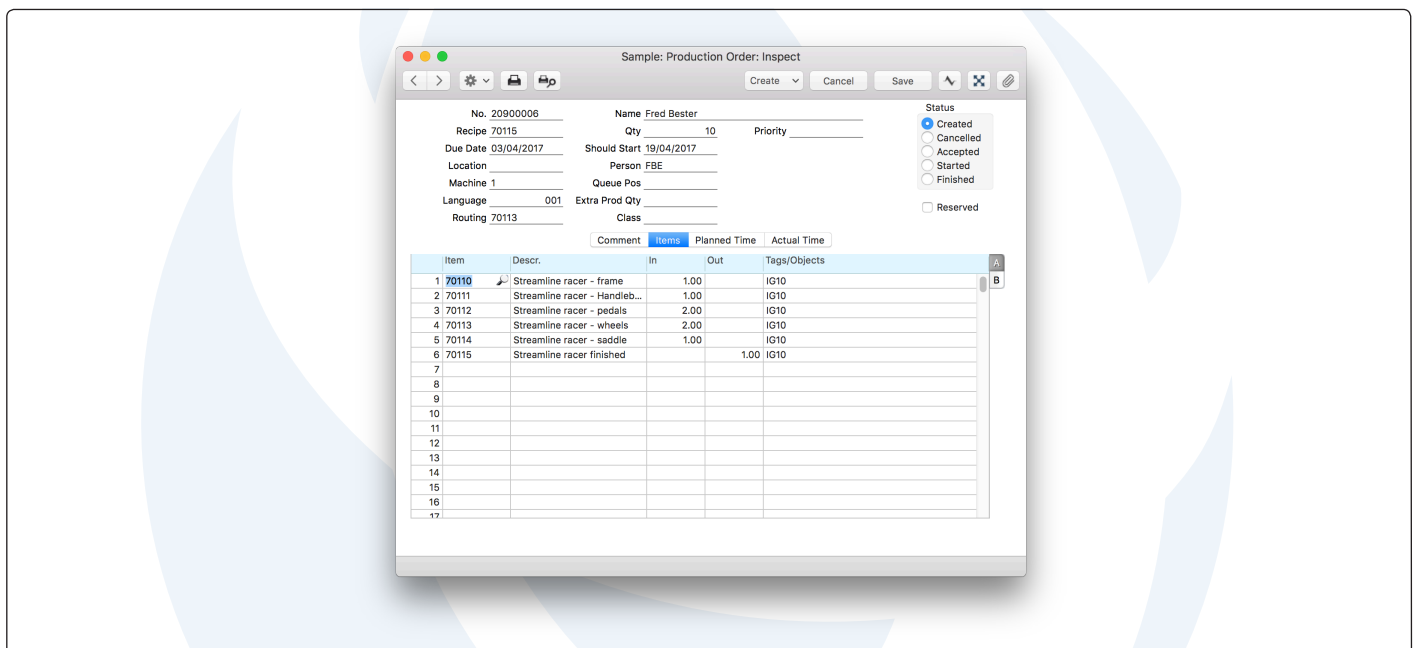
## Just-in-Time Production

Standard ERP provides automated functions for advance purchases of raw materials and scheduling, all from Sales Orders. Lead times can be stored for each component with different lead times for each vendor. Default vendors can also be designated for each item. Similarly, the time required to manufacture is stored in each Recipe for use in Production Orders or Productions.

There is a batch routine coordinating this process by working from the scheduled delivery date and creating forward Production Orders. This process is beneficial for scheduling production and ensuring on-time delivery, for example, or creating forward Purchase Orders in time to meet the scheduled Production Orders.

*"The complexities of our manufacturing operations require us to drill down to a very detailed level of analysis. Using Standard ERP, we can handle large volumes of inventory at any one time and cope with component variations in each bill of material such as micrograms, grams, milliliters, or liters. In addition, we are very easily able to attribute individual batch numbers to every single item, which means we have tight control over inventory traceability - this adds significantly to our bottom line and our quality control functions."*

- Jude Prophet, Newmarket Laboratories



## Materials Requirements Planning (MRP)

There are many reports and batch routines to assist in the materials purchasing process. Standard ERP includes an entire module to assist with the purchasing process for purchases based on forecast sales. This enables you to make a temporary capture of the current inventory position, and forward sales and purchase order books, including anticipated dates for delivery and receipt of inventory. These entries are editable to allow precise control of the "actual" position and to determine purchasing requirements. Subsequently, you can forecast sales for each item and location with reference to the vendor from whom you will order each item.

The actual purchasing decisions will be underpinned by detailed reporting of forward inventory movements. These reports show transactions for each day where there are forward orders; they calculate the forward inventory levels by adding expected receipts (on expected goods receipt dates) and subtracting expected deliveries (on expected delivery dates) from the actual inventory level resulting in purchase suggestions. Drill down provides data for order dates compared to delivery dates. Users can edit underlying records and re-run the reports until satisfied. The report includes a break point at which the forecast order data is used rather than actual sales orders.

Users can then run a batch routine to create Purchase Orders from the purchasing suggestion with a range of selection criteria. For example, the routine can be restricted to a range of items or requirements for a specific location.

## Routing

For repetitive processes, you can set up a series of Standard Operations that make up a routine, and each can comprise a set of instructions for the shop floor staff to follow. These can include a defined critical path requiring specific steps to be followed for a given sequence. Each Standard Operation can be allocated an element of the total cost of the Production and the actual Produc-

tion Operations can then be created automatically. Users are subsequently prompted to complete the Production Operation and can account for time, differentiating between setup, queue, move, run and actual times; if required, separate calculations can be associated with each. Standard ERP processes the accounting in real-time based on data entered into the Production Operation

*"The system optimizes almost all parts of our business, as well as internal processes – production, the receiving of goods, working with invoices and accounting."*

- Signija Cera, Sinerta

## Shop Floor Data Collection

Standard ERP operates not just on computers, but on a wide range of data collection platforms as well, including handheld barcoding (AIDC) devices, mobile phones and tablets. Standard ERP runs on all major operating systems and on almost any device. There is a customization toolset to configure the interface, limiting screens only to the fields vital for data entry processes. Standard ERP can also offer button-driven interfaces for processes where operators are using gloves, vehicle-mounted interfaces for forklifts, or even a four-field data entry screen to keep data capture to the absolute minimum.

Clocking in and out is administered through Standard ERP's Time-keeper module. Entries can be made by manual keying, key fobs, card swipes, and even fingerprint log-ins. All data captured in this way automatically populates Standard ERP's graphical scheduling system, if required. Entries can be restricted to known shift patterns as well.

Operations	Description	Machine	Mach. Group	Sequence	Sub	
1	70113ASS Wheel Assembly	1003	MG1	1		B
2	70113QC Wheel Quality control	1013		2		
3						
4						
5						
6						
7						





## Modules

- Additional Consolidated companies
- Additional Multi-user companies
- Additional Single user companies
- Assets
- Business Alerts
- Business Intelligence
- Calendar
- Cash book
- Checks
- Email and Conferences
- External Email
- Consolidation
- Contracts
- Course Booking
- Credit Management
- CRM
- Customs
- Data Integrity
- EDI
- Expenses
- General Ledger
- Hotel
- Human Resource Management
- Integration
- Inter Company
- Internal Inventory
- Inventory
- Jewelry
- Job Costing
- KPI
- Limited Access
- Loans
- MRP
- Payables
- Point of Sales
- POS Offline
- Pricing
- Print Servers
- Production
- Productivity
- Purchase Orders
- Quotations
- Receivables
- Rental
- Report Generator
- Resource Planning
- Restaurant
- Resort
- Sales Orders
- Service Orders
- Share Trading
- SmartView
- System
- Task Manager
- Telephony
- TimeKeeper
- User Settings
- Warehouse Management
- Webshop and CMS
- World Bank Reporting

## Technologies

- Additional Language Interface
- Business Communicator Asterix
- Business Communicator Intelligent Routing
- Business Communicator TAPI
- Database Accelerator
- Database Maintenance
- HAL
- Local Mailbox
- Real-time Interfacing Toolkit
- Remote Backup
- Massive Cache
- Native SQL
- SQL Shadowing
- TAPI Gateway
- Wide-area Networking

## Internet Services

- Address Lookup
- Credit Card Payment
- Credit History
- e-Invoicing
- Electronic Bank Services
- Electronic Sales Tax Return
- Exchange Rate Lookup
- Postcode Lookup

## Company profile

HansaWorld is a leading software house providing a full suite of Enterprise Resource Planning and Customer Relationship Management products that delivers the flexibility required by today's businesses.

The group employs more than 300 staff with a strong network of subsidiary companies and distribution partners on all continents. This network enables us to offer international implementation in over 30 languages with country specific localizations. The products are easy to use and available on all smartphones, tablets and desktops including Mac, iPhone and iPad.

HansaWorld continually invests in Research and Development to provide innovative and future proof products to our customers.

As recognized innovators for over 25 years, HansaWorld shows continued technological leadership in the international business software industry.

More than 550,000 companies trust us with their business critical information.

## Product Strategy

Standard ERP's advanced and successful user interface was first developed for Apple Macintosh in 1988. In 1994, when the program was ported to Windows, it had already been proved by thousands of users. HansaWorld's experience with international sales and modern technology puts it in the perfect position to meet the challenges of the next decade.

HansaWorld provides a wide range of technologies for e-business including internal and external email, several webshop solutions and full clients for all major tablets. In addition, HansaWorld can help to build a corporate portal. Standard ERP is developed using C++ as its programming language, and proprietary technology for database design and for network communication. This allows HansaWorld to have the same products available for several different operating systems, each version optimised for maximum performance.

Currently Standard ERP is available for Windows including Windows CE devices up to Windows 8 tablets, Mac OS X, all iOS devices (iPod Touch through to iPad), Linux and AIX, all browsers, and Google Android.

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