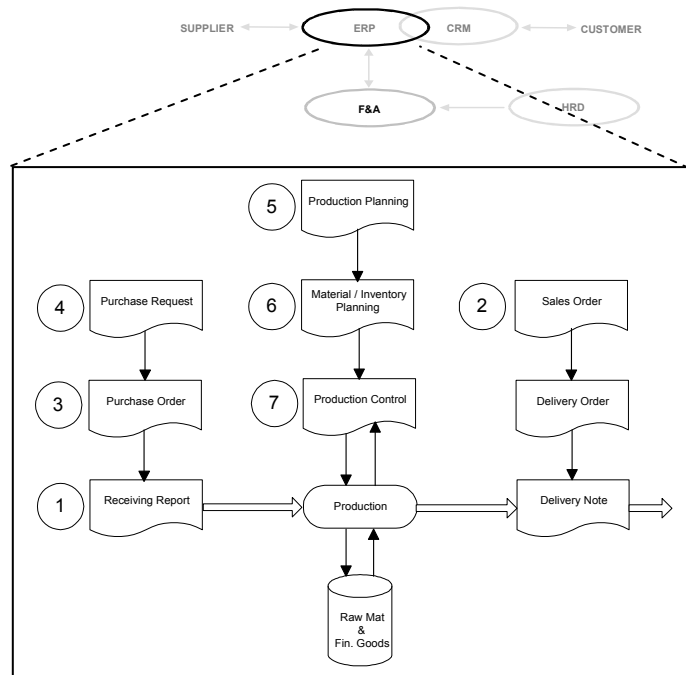


ERP – Enterprise Resource Planning is more than the name suggests, because besides production and inventory control, it includes planning and control for all processes of the core business. Actually for non-production companies these modules assist in the planning and costing methods used. With the correct implementation of the ERP modules large financial gains can be achieved through reduction of inventories and just-in-time production.



1. Inventory Control
2. Sales Order Processing
3. Purchase Order Processing
4. Purchase Document Flow Automation
5. Production Planning
6. Material Planning
7. Production Control

Inventory Control' Module

This module stores information regarding the location of raw materials and finished products. Multiple location codes can be defined not only for actual warehouses but also for items stored at customer/supplier locations. All inventory reports contain up-to-date information about the current level of stock.

The Inventory Control is very flexible in the type of data that is stored for each item. All of the following scenarios are supported:

- ✓ Some items are measured in two units of measurement without a fixed relation between the two.
E.g. wooden planks are both measured in pallets and cubic meters; but not every pallet contains the same amount of wood planks.

- ✓ Some items can be measured in two or more units of measurement, however a multiplier can be set for each item.
E.g. One box containing five pieces.
- ✓ Some items can be substituted by an equivalent item.
E.g. a car part 1 from brand A is identical to part 2 of brand B.
- ✓ Several items together form a set and is traded as such.
E.g. a stationery set, consisting of a pen, pencil and eraser, is sold at a reduced price.
- ✓ Some items occur in many sizes, which cannot efficiently be enumerated.
E.g. wooden planks can have many different sizes; reporting should report all the sizes currently available and summarize in cubic meter.

- ✓ Each item is considered unique and has a serial number.
E.g. each car has a unique number-plate.
- ✓ Some items have an expire date.
E.g. canned food.

‘Purchase Order Processing’ Module

The most basic part of the purchasing process supported by JS Systems consists of monitoring the ordering and receipt of raw material and other items. This forces a more consistent and transparent ordering process. Furthermore it aids purchasing decisions by providing price history and performance indicators about suppliers, such as timeliness of delivery.

The system keeps a database of purchase orders that is a basis for the receipt of purchased items. A warning can be issued if some items are overdue or items are received without a prior purchase order. After receipt of all relevant information, such as purchase order, receiving report and, if applicable, the supplier’s invoice a purchase voucher will be created automatically. The regular ordering, receipt and posting of purchases can be processed fully automatic and the manual control can be limited to special cases.

The Purchase Order Processing module fully integrates with the Inventory Control module such that in one report it is possible to see the actual inventory and when the inventory will be replenished. It also integrates with the Finance & Accounting modules for further processing of the purchase vouchers.

‘Sales Order Processing’ Module

This module supports the administrative process of receiving and keeping track of sales orders. The Sales Order Processing allows you to better analyze and control the timeliness of the delivery of orders and invoicing practices. The front-office processes such as quotations and sales forecasts are supported by the CRM (Customer Relations Management) Modules.

After a sales order is stored, the system will either automatically create a delivery order on the designated delivery date(s) or alternatively the operator creates the delivery orders. Both Delivery Orders and their confirmation by the warehouse or customer are stored permanently in the computer system. This system gives you the opportunity to both analyze and improve on the timeliness of orders.

When creating the sales order you can choose from a variety of invoicing options (subject to security limitations). An invoice can be automatically created on confirmation of the order, on shipment or on receipt of goods. Invoicing can either be instant, periodically or based on a credit limit. The preset invoicing options per customer can be modified only by an operator with sufficient rights in order to better control invoicing practices.

The Sales Order Processing module fully integrates with the Production Planning module for order driven and batch produced items. It also integrates with the Finance & Accounting modules for further processing of the invoices.

‘Purchase Document Flow Automation’ Module

This module is an addition to the ‘Purchase Order Processing’ module. The data entry screens will be tailor-made for more efficiency in the purchasing department and other departments that are involved.

‘Material Planning and Production Planning’ Module

The Material Planning module eliminates the manual process of creating a detailed

B.O.M (Bill of Materials) for each order or batch that is scheduled. The computerized B.O.M is less error-prone and easier to update/modify since all changes are immediately reflected.

Each finished product that has been ordered is defined using processes and materials required to produce it. It is also possible to use sub-materials and sub-processes which in turn are defined elsewhere. Some processes can be executed in parallel where others are sequential. The minimum or optimal batch size per (sub) process is observed when creating a purchase suggestion for the raw materials required.

This module supports both continuous/batch production and customized-to-order production. It is easy to modify a product to the customers requirements as only the highest level of product definition has to be edited. All changes are immediately reflected in the B.O.M.

The Material Planning Module fully integrates with the Product Planning and Production Control modules, in which case a list of (sub) processes for each order can also be created. It also links to the Purchase Document Flow Automation module for automatic ordering of raw materials.

‘Production Control’ Module

Whether it be continuous, batch or order based production it is important to have up-to-date and accurate information about the current status of production and the long term efficiency. The Production Control module achieves both goals by formalizing production data and being a rapid communication to the proper levels of management.

The total production of an item may consist of many different steps or processes. This module is centered around the notion of distinct production processes that are initiated by a Process Order and finished with a Process Completion Slip. Each process transfers certain materials into (semi-) finished goods or advances an item towards a finished product

All processes use resources such as labor, machine hours, raw materials, electricity, etc. that are also noted on the Process Completion Slip. Integrated with the Material Planning module this allows for reporting on efficiency as referred to a standard set in the Production Process database. This module should always be used in conjunction with the Inventory Control module.