

Cutting-edge Business Software <sup>TM</sup>  
**NAMASOFT**



Manufacturing  
Management system

**NAMA ERP**

*Enterprise resource planning*





## 1.1 Overview

### Manufacturing

NAMA provides a comprehensive system to manufactured products in many industries such as medicines, textiles, canned goods, chemicals, and other typical products. Typical products are those products whose defined bill of materials, operations, and resources in order to produce these products periodically according to required quantity of the product.

## 1. Production Management



## 1.2 Features

### Comprehensive files for manufacturing process elements

**Bill of materials:** NAMA allows defining infinite number of components for each product with the capability of linking each component with its operation. You can also define the method to issue each component from its warehouse whether automatically or manually as well as defining detailed information for each component in terms of quantity, unit, dimension, yield, and others.

Via Bill of materials file, you can also define the co-products resultant from manufacturing the final product with a statement of quantity and cost percentage for each co-product.

**Routing:** Via routing file, you can define the consecutive operations to produce the product. You can define the characteristics of each operation in terms of the used resources, the method of charging cost, and others.

**Resources and activities:** NAMA provides a special file to define resources whether workers or machines with the ability of linking these resources with Human resources and Fixed assets modules and determining the cost rate of each resource. You can also define many accounts for each resource. On the other hand, you can define infinite number of activities where the resource may have many activities according to the operation nature.

**Work centers:** NAMA provides defining any number of work centers as well as the resources existing in each work center, resources number and the working hours available for each resource.

**Overheads:** NAMA provides different methods to charge cost of the production order overheads such as charging cost per the value of each resource hour, by a percentage of the total cost of consumed raw materials, by a percentage of the total cost of resources hours.

### Comprehensive documentary cycle

NAMA supports all documents that cover the manufacturing process from issuing the production request into closing the production order and costing the finished products.

**Production order:** Via the production order, you can define the quantity of finished products to be produced, the characteristics of this product in terms of bill of materials, operations, co-products, in addition to many other information such as batch number, production date, quality information, and others.

**Production execution:** Via the production execution document, you can execute an

operation – or many operations – for the production order. You can also, execute many operations for multiple production orders all at once.

**Product delivery and product return vouchers:** In order to receive and return finished products and co-products of the production order. In addition to these documents, NAMA supports also Raw material voucher, Scrap receipts, and production order close voucher.

**Adjustments for closing production order:** Planned overheads for the production order may vary significantly from the actual overheads such as unexpected electricity bill. Via order close adjustment voucher, you can recalculate the cost of the production order and consequently the cost of finished products even after closing the production order.

### Full integration with other system modules

Manufacturing module integrates with the other system modules where the raw materials are invoked from the inventory items defined before in Inventory module, while the workers and machines defined before in Human resources and fixed assets modules are used as resources to execute operations. Product receipt voucher generates a stock receipt voucher automatically to receive final products in the warehouse, while product return voucher generates a stock issue voucher automatically to issue the returned products.

### Adaptation with the other manufacturing methods

Manufacturing module has been designed so as to adapt with the other manufacturing method. For example, NAMA supports all supply types such as supplying materials manually or automatically such as operation pull with executing operation or assembly pull with receiving the finished products.

### Usability

Manufacturing module was designed so as to ease the manufacturing data entry as well as manipulating this data in a flexible way as the following examples:

NAMA helps user to determine the standard quantities required to produce the final products where you can define the quantity of raw material required to produce a quantity of final products by any way. For example, you can define 3 liter of a raw material required to produce 3 tons of final product, and leave NAMA to calculate any other quantities.

NAMA supports executing many operations for multiple production orders all at once.



## 1.3 Reports

- Production requests within period
- Production orders within period (Closed, terminated, initial, current)
- Product receipts for a production order (many production orders) within period
- Product returns for a production order (many production orders) within period
- Product scraps for a production order (many production orders) within period
- Product executions for a production order (many production orders) within period
- Deviation percentage of actual products from planned products for a production order (for product receipts, co-products)





## 2.1 Overview

### Material resource planning MRP

NAMA supports a planning system for manufacturing products in order to produce the products according to a business plan taking into account the available materials and expected sales.

## 2. Material Requirement Planning (MRP)



## 2.2 Features

### Material resource planning MRP

NAMA supports a planning system for manufacturing products in order to produce the products according to a business plan taking into account the available materials and expected sales.

### Multiple Scenarios

NAMA supports defining many scenarios to record many forecasts according to different point of views as well as comparing between them. NAMA provides many mechanisms to compare between defined scenarios according to the expectation percentage of each one, where NAMA distinguishes between products to be produced and already have sales orders issued before in defined periods, and those products expected via forecast documents, and those products expected via a manual demand document that issued by the planning manager according to his point of view. Planning documents Via planning documents, decision maker can choose between different forecasts in order to collect required products to have full information about the required quantities for each product, and quantities of raw materials to be bought. Via planning document, you can issue the production orders, production requests in addition to the purchase order for raw materials required for the planned products.

### Planning documents

Via planning documents, decision maker can choose between different forecasts in order to collect required products to have full information about the required quantities for each product, and quantities of raw materials to be bought. Via planning document, you can issue the production orders, production requests in addition to the purchase order for raw materials required for the planned products.

### We help you to plan

NAMA provides many mechanisms to help decision maker to execute the proper planning. For example, when displaying the products to be produced in planning document – desired tab screen, NAMA displays the currently available quantities of the products, the quantities that expected to be received in warehouses, and the quantities that expected to be issued from warehouses in order to make the correct decision to determine the required quantities by which the production order will be issued. NAMA displays the product quantities whether currently available, expected to be received, or expected to be issued from warehouses by any level of complexity where

NAMA distinguishes between quantities in enterprise warehouses and quantities existing in the warehouses related to the enterprise distributors; furthermore, the available and expected quantities could be calculated by special equations desired by the client himself. Where these quantities could be calculated based on specific warehouses without the other s. Available and expected quantities could be calculated also based on sales or purchases documents in specific periods or any other parameters; the matter which provides a great flexibility in adapting with the enterprise work nature.

NAMA provides production order for planning which differs from the normal production order, where production order for planning has a detailed description for the use percentage of each required raw material in the different products which helps the management to recognize the extent of need for each item; consequently, making the proper decision for purchasing according to the market conditions.





## 2.3 Reports

- Reports will be designed according to customer desire
- Deviation of raw materials from planned materials of a production order (or many production orders)
- Required raw materials to produce specific quantity of products
- Raw materials issued to a production order (or many production orders) within period
- Raw materials returned to a production order (or many production orders) within period
- List of planned purchase orders within period
- List of defined scenarios
- List of MRB Sales forecasting
- List of planning raw materials documents
- Deviation percentage of produced products from expected products within period





## 4.1 Overview

### QUALITY SYSTEM

NAMA supports quality system for inventory and manufactured items, where you can use the quality control system to apply the quality standards, or the quality assurance system to insure that quality process has been followed.

## 4. Quality Control



## 4.2 Features

### Applying Quality Standards

NAMA allows applying quality standards for received and issued items. This feature is very important, especially with manufacturing activities. Via check lists, you can test the items and then accept or reject these items. Quality tests could be performed via Quality control documents that are allocated to apply enterprise quality standards. NAMA also provides Quality assurance document to assure that all quality steps have been performed correctly.

NAMA supports applying quality standards in both inventory and manufacturing

modules, where received and issued items could be accepted only after passing the quality standards and assuring that all quality processes have been performed according to the work flow applied in the system.

Quality standards could be applied also for each production order in the manufacturing module, where the finished products could be accepted in warehouses only after passing the quality standards. You can apply the quality standards in each operation in the production so that rejecting the product and returning it to the previous operation when it does not pass the quality standard related to each operation.





# 4.3 Reports

- Reports will be designed according to customer desire
- Quality control list
- Quality control documents within period (QC requests, QC documents)





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