

Beas Tutorials



Beas Manufacturing

Beas Manufacturing is the global solution for small to mid-sized discrete and process manufacturing businesses. Offering functionality from the planning phase through to control, implementation and fulfilment, Beas Manufacturing ensures efficiency and flexibility for manufactures.

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1 Analyze and execute pre-calculations

Product costing is a complex process used to value the internal cost of materials and production for profitability and management accounting. This tutorial gives and overview of product costing, its importance and practical uses in the business process.

Throughout a given period, actual expenses are recorded in SAP as purchases are made, payroll is processed, bills are paid, and production occurs. At month-end, Work in Process, Variance, and Settlement are calculated. The variance between actual costs and standard costs can result in changes to product costing for the next period or year. Costs are settled, and the posting period is closed at the end of the month.

Product cost planning is a concept where the business can plan costs for materials or finished goods, set prices for materials and other cost accounting objects without references to orders. Analyzing product costs provides answers to questions such as:

- What is the added value of a particular step in the production process?
- What proportion of the added value can be attributed to a particular organization unit?
- What are the material, production, and overhead costs?
- How can production efficiency be improved?
- Can the product be sold at a competitive price?

Beas offers the Precalculation functionality where product cost is planned. This function simulates the planned cost based on the information from the item master data (BOM and routing). This function also allows to check the structure of an item based on its cost structure. This tutorial explains how to run the Precalculation functionality, explains the main fields at the Precalculation screen used for product cost planning. It details the master data affecting the Precalculation results, to understand material and operational cost calculation results and set material pricing parameter to calculate material cost.

1.1 Process interactions

The Beas Precalculation function interacts with the following processes:

| Process | Function |
|-------------|--------------------------------------|
| Engineering | Planned item cost |
| | Batch calculation |
| Production | Planned work order cost |
| Sales | Precalculation for sales order items |

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1.2 Process

In Beas, there are 3 cost calculation functionalities. Some of these estimates planned cost and others analyze actual costs.

Precalculation calculates planned cost and post-calculation calculates the actual cost of the item from a work order.



Pre-calculation gathers information from the item master data, material quantities required to produce from the bill of materials, and time required from the routing steps. An option allows to run the pre-calculation directly from the master data to view the planned cost of a produced item.

Post-calculation uses the information of the work order to calculate the actual cost. The system not only estimates the planned cost of the work order based on its BOM and routing defined, but also calculates the actual cost based on material consumption and time reporting.

The pre-calculation function might be used at a sales order to customize an *Order Related* item, or it can be run in bulk, using several items, to create an SAP price lists. This type of execution is performed by the *Batch Calculation* functionality. For more information, please refer to *Batch Calculation* functionality.

While creating item structures, there is an option to run the pre-calculation functionality in the master data to review the cost of the item and to ensure that the structure is correct.

1.2.1 Assigning a Calculation Schema to an item

After some calculation schemas are defined in the database, they need to be assigned to the produced items. If an item has no assigned calculation schema assigned, Beas uses the default calculation schema defined in the Configuration Wizard.

The calculation schema can be assigned to an item in the item master data, the Calculation tab.

Inventory > Item Structure > Double Click an item > Calculation tab

The item structure screen of Beas displays a list of all items created.

Link the required calculation schema in the Calculation schema field. The drop-down displays all defined calculation schemas to chose from.

| tem master data | for FG001 | | | | | | | | | | | | |
|----------------------------------------------|---------------|----------------|-----------|--------------------------|-----------|--------|-------------------|---------------|-------------------------|------------|-------------|---------|---|
| Master Data | Bill of Mater | ials | Routing | Configu | irator | Qual | ity control | | | | | | |
| Item number | FG0 | 01 | | I-Ve | rsion 📫 | | ▼ 🗉 | Warehouse | e item 🔽 | | | | |
| Description | Fini | shed Good 01 - | Storage R | elated | | | | Sales Item | e item 🗹 V part V | | | | |
| Desc. in foreign lang | g. | | | | | | | Purchased | part 🗸 | | | | |
| Item type | Iten | 1 | | - | | | | Fixed asset | | | | | |
| Item group | Iten | 15 | | Barc | ode | | ۲ | | | | | | |
| UoM Group | Mar | ual | | | | | | | | | | | |
| General Pure | chasing data | Sales data | Inver | tory data | Batch | | Planning data | Calculation | n Properties | Remarks | Attachments | Variant | |
| | | | | Last Calcu | lation | Detail | Chart MargCos | sts Cha | rt Full Costs A | ll Results | | | |
| Calculation schema Lot size / calculation | | ~ | | Last Calculat | ion | 6 | /30/2017 00:45:58 | | | 1 | | | ^ |
| Calculation price | | 246.24 | | Calculation | | ⇒1 | | ation - FG001 | | 1 | | | |
| calculation price | | | | Туре | | V | aluation | | | - | | | |
| Last Purchase Price | | 3.25 | \$ | Description | | | | | | 1 | | | |
| Last movement | 06/3 | 0/17 | | Schema | | s | td | One step | |] | | | |
| Last valuated Price | | 0.00 | | | | | | | | - | | | |
| Last Valuation | | | | | | | | | | | | | |
| Average price | | 0.00 | | | | | Marginal Cos | st | Full Cost | | | | |
| | | | | Direct Mater | ial Costs | | 0.0 |)2 | 0.0 | 2 | | | |
| | | | | L+M costs | | | 225.1 | 12 | 225.1 | 2 | | | |
| | | | | Production | Price | | 231.9 | 90 | 234.1 | 5 | | | |
| | | | | | | | | | | | | | ~ |

IMPORTANT: This tab only appears when the mode of procurement is set to Produce. For more information about mode of procurement, refer to the Item Master Data tutorial.

1.2.2 Executing a pre-calculation from the item master data

A pre-calculation can be run for a specific item from its item master data. This calculation only displays the results and cannot be saved.

1. Go to the item master data, Calculation tab.

| Master Data | Dill of t | 1aterials | Routing | Configu | | Quality | / control | | | | | |
|-----------------------|------------|--------------------|--------------|------------|---------|-------------|--------------|--------------|------------------|-------------|---------|--|
| | | | Routing | | | | | | | | | |
| Item number | | FP_S | | | rsion 😐 | <u>></u> | - 3 | Warehouse | item 🗹 | | | |
| Description | | Finished Product / | Normal / Mak | e to Stoc | k | | | Sales Item | item 🗹 Sart 🗹 | | | |
| Google Search | | | | | | | | Purchased p | part 🗹 | | | |
| Item type | | Item | - | | | | | Fixed assets | | | | |
| Item group | | Items | - | Barc | ode | | (3) | | | | | |
| UoM Group | | Manual | |] | | | | | | | | |
| General Pur | chasing d | ata Sales data | Inventor | y data | Planni | ing data | Calculation | Properties | Remarks | Attachments | Variant | |
| | | | | last Calcu | lation | Detail | Chart MargCo | osts Char | t Full Costs | All Results | | |
| Calculation schema | | Std 🔻 | | | | | | | | | | |
| Lot Size / Calculatio | n | 0 | | | | | | | | | | |
| Calculation price | | 0.00 | | | | | | | | | | |
| Last Purchase Price | | 0.00 | | | | | | | | | | |
| Last movement | | | | | | | | | | | | |
| Last valuated Price | | 0.00 | | | | | | | | | | |
| Last Valuation | | | | | | | | | | | | |
| Average price | | 0.00 | | | | | | | | | | |
| Price List | Calculati | on | | | | | | | | | | |
| The clot | Concollati | | | | | | | | | | | |

- 2. Link a calculation schema to the item, if it is not already done.
- 3. Click the **Calculation** button to open the attached calculation schema on the item.

| Calculation FP_S | | | |
|-----------------------|-----------------------|-----|----|
| Calculation schema | ⇔ Std | - | |
| Lot Size | | 0 | |
| Material valuation | Item valuation method | - | |
| Material valuation 2 | (1) Price List 01 | - | |
| One step | | | |
| Display per | Display per piece | - | |
| | | | |
| I-Version | | - 3 | |
| Variant | | - | |
| Product configuration | | - | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| Start C | ancel | | Γ. |
| | | | |

4. Click **Start** to execute the calculation. For an explanation on the available fields, see

Calculation field guide in the Beas online help.

5. The result screen opens.

| Processing | View | Functions |] | | | | | | | | |
|-------------|-------------|-----------------|-------------------|---------------------|---------------|--------------|---------|--------|-------------|--------|-----|
| 2 | | | ٩ | • | ot | 6 | æ | × | | | |
| Edit | Insert item | New Assembly | New Material | Create Operation | Cut | Сору | Insert | Delete | Calculate | | |
| t Size: 1 | Ma | argCosts | Description | | | Quantity Use | Co | st DM | IC T/Min | LMC | |
| F | P_S | | Finished Product | Normal / Make to | Stock | 1.0000 Pcs | 0.0 | 0 24. | 08 0.500000 | 7.0000 | |
| 🍅 10 | RM | | Raw Material / No | rmal | | 1.0000 Pcs | 1.000 | 0 1.00 | 00 0.00 | 0.00 | |
| <u>à</u> 20 | RM_N | | Raw Material / No | rmal / Negative BC | DM -1.0 | 000000 Pcs | 0.0 | 0 0. | 00 0.00 | 0.00 | |
| <u>á</u> 30 | RM_QC | | Raw Material / No | rmal / With QC | | 1.0000 Pcs | 0.99000 | 0.9900 | 00 0.00 | 0.00 | 0.9 |
| á 40 | RM_V | | Raw Material / No | rmal / Version | | 1.0000 Pcs | 1.000 | 0 1.00 | 00 0.00 | 0.00 | |
| õ 50 | RM_V_N | | Raw Material / No | rmal / Version / Ne | gative BC -1. | 000000 Pcs | 0.0 | 0 0. | 00 0.00 | 0.00 | |
| õ 60 | RM_B | | Raw Material / Ba | ich | | 1.0000 Pcs | 1.000 | 0 1.00 | 00.00 | 0.00 | |
| ŏ 70 | RM_B_N | | Raw Material / Ba | ch / Negative BO | M -1.0 | 000000 Pcs | 0.0 | 0 0. | 00 0.00 | 0.00 | |
| a 80 | RM_B_QC | | Raw Material / Ba | ah / OC | | 1.0000 Pcs | 1.090 | 0 1.09 | 00.00 | 0.00 | |

1.2.3 Analyzing a pre-calculation result

After the pre-calculation is executed, a new screen is opened. The results are displayed in the following structure:

| Processin | g View | Functions | | | | _ | _ | | | | | | | |
|-----------|-----------------------|-----------|------------------|-------------------|-----|--------------|-----|--------|--------|----------|--------|--------|--------|----------------|
| 2 | C Insert item | New | () New | Çreate | ot | 6 | | æ | × | C | 1 | | | |
| Edit | | Assembly | Material | Operation | Cut | Сору | | Insert | Delete | Calcu | late | | | |
| t size: 1 | Ma | rgCosts | Description | | | Quantity Use | 2 | Co | st | DMC | T/Min | LMC | COGS | Drawing number |
| | FG001 | | Finished Good 01 | - Storage Related | | 1.0000 Piece | | 0. | 00 | 118.93 | 67.03 | 215.12 | 334.05 | |
| 10 | SF001 | | Semi-finished 01 | | | 3.0000 Piece | | | | 116.93 | 7.0000 | 35.00 | 151.93 | |
| 20 | PK003 | | Package Item 03 | | | 1.0000 Piece | | 2.00 | 00 | 2.0000 | 0.00 | 0.00 | 2.0000 | |
| 10 | Blist1 | | Operation 01 | | | | 1.0 | | | 0.00 | 30.00 | 60.00 | 60.00 | |
| 20 | Pack01 | | Operation 02 | | | | 1.0 | | | 0.00 | 30.03 | 120.12 | 120.12 | |
| Materia | I Costs by Bill of Ma | aterials | | | | | | | | 118.91 | | | | |
| | al processing | | 0.023 | | | | | | | 0.022500 | | | | |
| | Material Costs | | | | | | | | | 118.93 | | | | |
| | t Material Costs | | 0.0% | | | | | | | 0.00 | | | | |
| L+M co | | | | | | | | | | | | 215.12 | | |
| Indirect | t Production Costs | | 3.0% | | | | | | | | | 6.4538 | | |
| Costs | of goods sold | | | | | | | | | | | | 340.51 | |
| Shippin | g cost | | | | | | | | | | | | 0.00 | |
| Sales a | and Administration | | 3.0% | | | | | | | | | | 10.22 | |
| Cost o | f Sales | | | | | | | | | | | | 350.72 | |
| Profit I | /largin | | | | | | | | | | | | 0.00 | |
| Net Sa | les Price | | | | | | | | | | | | 350.72 | |
| Discou | nt | | 3.0% | | | | | | | | | | 10.85 | I |
| large s | ales price | | | | | | | | | | | | 361.57 | |
| Sales F | Price | | | | | | | | | | | | 389.43 | I |
| | | | | | | | | | | | | | | |

The item structure can be expanded in the upper side of the screen, marked in red.

The calculation schema objects are displayed at the bottom of the screen, marked in blue. These can be hidden by setting the *Hide calculation schema* parameter in the calculation schema setup. For more information about this setting, refer to the Calculation Schema tutorial.

The user can hide selected objects from the calculation schema in the pre-calculation screen. For more information about this, refer to the *Default* field in the *Overhead Cost* objects in the Calculation Schema tutorial.

The columns display the input and results of the calculation.

| Proces | ssing View | Functions | | | | | | | | | | | | |
|----------------------------------------------------------------------------------------|---------------------------|-----------------|------------------|---------------------|-----------|--------------|-----|---------------|----------|--------|--------|--------|----------------|---|
| Edit | insert item | New Assembly | New Material | Create Operation | ्ह Cut | Сору | | Insert Delete | Calc | | | | | |
| ot size: | :1 M | argCosts | Description | | | Quantity Us | 9 | Cost | DMC | T/Min | LMC | COGS | Drawing number | |
| | FG001 | | Finished Good 01 | - Storage Related | | 1.0000 Piece | | 0.00 | 118.93 | 67.03 | 215.12 | 334.05 | | |
| 10 | SF001 | | Semi-finished 01 | | | 3.0000 Piece | | | 116.93 | 7.0000 | 35.00 | 151.93 | | |
| 20 | PK003 | | Package Item 03 | | | 1.0000 Piece | | 2.0000 | 2.0000 | 0.00 | 0.00 | 2.0000 | | |
| a 10 | Blist1 | | Operation 01 | | | | 1.0 | | 0.00 | 30.00 | 60.00 | 60.00 | | |
| 20 | Pack01 | | Operation 02 | | | | 1.0 | | 0.00 | 30.03 | 120.12 | 120.12 | | |
| | terial Costs by Bill of I | Materials | | | | | | | 118.91 | | | | | |
| Ext | ernal processing | | 0.023 | | | | | | 0.022500 | | | | | |
| Dire | ect Material Costs | | | | | | | | 118.93 | | | | | |
| 🕳 Indi | irect Material Costs | | 0.0% | | | | | | 0.00 | | | | | |
| 📕 L+N | / costs | | | | | | | | | | 215.12 | | | |
| a Indi | irect Production Costs | | 3.0% | | | | | | | | 6.4536 | | | |
| Cos | sts of goods sold | | | | | | | | | | | 340.51 | | |
| n Shi | pping cost | | | | | | | | | | | 0.00 | | |
| 📻 Sak | es and Administration | | 3.0% | | | | | | | | | 10.22 | | |
| Cos | st of Sales | | | | | | | | | | | 350.72 | | |
| e Pro | fit Margin | | | | | | | | | | | 0.00 | | |
| Ref | t Sales Price | | | | | | | | | | | 350.72 | | 1 |
| e Dis | count | | 3.0% | | | | | | | | | 10.85 | | |
| arg larg | e sales price | | | | | | | | | | | 361.57 | | |
| Mat Ext Dire Ind Ind Cos Shi Cos Pro Net E Ing Sal | es Price | | | | | | | | | | | 389.43 | | |
| | | | | | | | | | | | | | > | 1 |

Description: The description of each item and routing from the item structure. This is used to display details of the surcharge from the calculation schema, like percentage or fixed value.

Quantity Use:

- For a bill of material positions (raw material and subassemblies): Quantity of the material required to produce
- For a finished good: Quantity to be produced
- For a routing position Time needed to perform the task from the routing

Quantities are summarized according to a specific unit of measure, which is defined in the Configuration Wizard.

Cost: The material price determined by Material Valuation or Material Valuation 2 defined for the pre-calculation execution.

DMC: Acronym for Direct Material Cost. The direct material cost per material (quantity * cost) in the item structure and, summarized in the Direct Material Costs calculation schema object and the finished good item (BOM material cost + external operation cost defined in the calculation schema). For more information about Calculation Schema, please refer to <u>Calculation Schema</u> tutorial.

Example: For the item FG001, there is a subassembly and a raw material as part of the bill of material. Beas calculates the DMC for each position which is the quantity * cost. For PK003 – Package Item $03 = 2 \in * 1$ piece = $2 \in * 1$

| Lot | size: 1 | MargCosts | Description | Quantity Us | e | Cost | DMC | T/Min | LMC | COGS |
|-----|-------------|------------------------------|------------------------------------|--------------|-----|----------|----------|--------|----------|----------|
| E | 1 | FG001 | Finished Good 01 - Storage Related | 1.0000 Piece | | 0.00 | 118.93 | 67.03 | 1,165.12 | 1,284.05 |
| C | 10 | SF001 | Semi-finished 01 | 3.0000 Piece | | | 116.93 | 7.0000 | 35.00 | 151.93 |
| T. | | RM001 | Raw Material 01 | 9.0000 Gr | | 0.250000 | 2.2500 | 0.00 | 0.00 | 2.2500 |
| | 🙆 20 | RM002 | Raw Material 02 | 18.00 ml | | 3.4500 | 62.10 | 0.00 | 0.00 | 62.10 |
| | 歯 30 | RM003 | Raw Material 03 | 3.0000 ml | | 1.7200 | 5.1600 | 0.00 | 0.00 | 5.1600 |
| | 歯 40 | RM004 | Raw Material 04 | 150.00 ml | | 0.150000 | 22.50 | 0.00 | 0.00 | 22.50 |
| | 歯 50 | RM005 | Raw Material 05 | 30.00 ml | | 0.830000 | 24.90 | 0.00 | 0.00 | 24.90 |
| | 🙇 10 | Mix | Operation 01 | | 1.0 | 5.0000 | 0.00 | 7.0000 | 35.00 | 35.00 |
| | 🙀 15 | ENC1 | Operation 02 | | | | | | | |
| | 20 | ENCAP | External Operation | Piece | 1.0 | 0.022500 | 0.022500 | 0.00 | 0.00 | 0.022500 |
| | 20 | PK003 | Package Item 03 | 1.0000 Piece | | 2.0000 | 2.0000 | 0.00 | 0.00 | 2.0000 |
| ÷ | a 10 | Blist1 | Operation 01 | | 1.0 | | 0.00 | 30.00 | 1,010.00 | 1,010.00 |
| ļ | 20 | Pack01 | Operation 02 | | 1.0 | | 0.00 | 30.03 | 120.12 | 120.12 |
| | Materia | I Costs by Bill of Materials | | | | | 118.91 | | | |
| | Externa | al processing | 0.023 | | | | 0.022500 | | | |
| | | Material Costs | | | | | 118.93 | | | |
| | | t Material Costs | 0.0% | | | | 0.00 | | | |

Beas calculates the DMC for the assembly SF001 by summing up all material costs and the external operation cost. This means: RM001 + RM002 + RM003 + RM004 + RM005 + ENCAP

DMC for SF001 = (9 * 0.25€) + (18 * 3.25€) + (3 * 1.72€) + (150 * 0.15€) + (20 * 0.83€) + (0.225€)

= 116.93€

| Lot si | ize: 1 | MargCo | sts Description | Quantity Us | e | Cost | DMC | T/Min | LMC | COGS |
|--------------|-------------|---------------------------|------------------------------------|--------------|-----|----------|----------|--------|----------|----------|
| | F | G001 | Finished Good 01 - Storage Related | 1.0000 Piece | | 0.00 | 118.93 | 67.03 | 1,165.12 | 1,284.05 |
| | 10 | SF001 | Semi-finished 01 | 3.0000 Piece | | | 116.93 | 7.0000 | 35.00 | 151.93 |
| | 10 | RM001 | Raw Material 01 | 9.0000 Gr | | 0.250000 | 2.2500 | 0.00 | 0.00 | 2.2500 |
| | 20 | RM002 | Raw Material 02 | 18.00 ml | | 3.4500 | 62.10 | 0.00 | 0.00 | 62.10 |
| | <u>ک</u> 30 | RM003 | Raw Material 03 | 3.0000 ml | | 1.7200 | 5.1600 | 0.00 | 0.00 | 5.1600 |
| | <u>á</u> 40 | RM004 | Raw Material 04 | 150.00 ml | | 0.150000 | 22.50 | 0.00 | 0.00 | 22.50 |
| (| 50 | RM005 | Raw Material 05 | 30.00 ml | | 0.830000 | 24.90 | 0.00 | 0.00 | 24.90 |
| | ž 10 | Mix | Operation 01 | | 1.0 | 5.0000 | 0.00 | 7.0000 | 35.00 | 35.00 |
| | 15 | ENC1 | Operation 02 | | | | | | | |
| | 20 | ENCAP | External Operation | Piece | 1.0 | 0.022500 | 0.022500 | 0.00 | 0.00 | 0.022500 |
| | 20 | PK003 | Package Item 03 | 1.0000 Piece | | 2.0000 | 2.0000 | 0.00 | 0.00 | 2.0000 |
| . <u>é</u> ' | 10 | Blist1 | Operation 01 | | 1.0 | | 0.00 | 30.00 | 1,010.00 | 1,010.00 |
| | 20 | Pack01 | Operation 02 | | 1.0 | | 0.00 | 30.03 | 120.12 | 120.12 |
| | Material | Costs by Bill of Material | 5 | | | | 118.91 | | | |
| | External | processing | 0.023 | | | | 0.022500 | | | |
| | Direct M | aterial Costs | | | | | 118.93 | | | |
| | Indirect | Material Costs | 0.0% | | | | 0.00 | | | |

Beas then calculates the DMC for the finished good FG001 by summing the rest of the bill of material. This means: SF001 + PK003

DMC for FG001 = 116.93€ + 2€

= 118.93€

| ot size: | 1 MargCosts | Description | Quantity Use | Cost | DMC | T/Min | LMC | COGS |
|----------|---------------------------------|------------------------------------|--------------|----------|----------|--------|----------|---------|
| . | FG001 | Finished Good 01 - Storage Related | 1.0000 Piece | 0.00 | 118.93 | 67.03 | 1,165.12 | 1,284.0 |
| 🗀 10 | SF001 | Semi-finished 01 | 3.0000 Piece | | 116.93 | 7.0000 | 35.00 | 151.9 |
| 🕥 1 | 0 RM001 | Raw Material 01 | 9.0000 Gr | 0.250000 | 2.2500 | 0.00 | 0.00 | 2.250 |
| 2 | 0 RM002 | Raw Material 02 | 18.00 ml | 3.4500 | 62.10 | 0.00 | 0.00 | 62.1 |
| 3 | 0 RM003 | Raw Material 03 | 3.0000 ml | 1.7200 | 5.1600 | 0.00 | 0.00 | 5.160 |
| 🙆 4 | 0 RM004 | Raw Material 04 | 150.00 ml | 0.150000 | 22.50 | 0.00 | 0.00 | 22.5 |
| | 0 RM005 | Raw Material 05 | 30.00 ml | 0.830000 | 24.90 | 0.00 | 0.00 | 24.5 |
| | 0 Mix | Operation 01 | 1.0 | 5.0000 | 0.00 | 7.0000 | 35.00 | 35. |
| 🧟 1 | | Operation 02 | | | | | | |
| 2 | 0 ENCAP | External Operation | Piece 1.0 | 0.022500 | 0.022500 | 0.00 | 0.00 | 0.0225 |
| 20 | PK003 | Package Item 03 | 1.0000 Piece | 2.0000 | 2.0000 | 0.00 | 0.00 | 2.00 |
| | Blist1 | Operation 01 | 1.0 | | 0.00 | 30.00 | 1,010.00 | 1,010. |
| 20 | Pack01 | Operation 02 | 1.0 | | 0.00 | 30.03 | 120.12 | 120. |
| 📕 Mate | rial Costs by Bill of Materials | | | | 118.91 | | | |
| | rnal processing | 0.023 | | | 0.022500 | | | |
| E Dire | ct Material Costs | | | | 118.93 | | | |
| India | ect Material Costs | 0.0% | | | 0.00 | | | |

T/Min: The operation time duration, including setup time and processing time.

Times are summarized according to a specific unit of measure. This is defined in the Configuration Wizard.

LMC: Acronym for Labor and Machine Cost. Operation cost per routing position (Time * resource cost rate) in the item structure and, summarized in the calculation schema object L + M Cost and the finished good item.

COGS: Acronym for Cost Of Goods Sold. The first draft of the product cost which includes DMC + LMC and additional surcharges related to materials and operations included in the calculation schema. For more information about Calculation Schema, please refer to <u>Calculation Schema</u> tutorial.

1.2.4 Creating and executing a pre-calculation from the Precalculation screen

Sales – A/R > Precalculation

This screen lists all pre-calculations that are saved in the system. Any of them can be opened or edited or a new calculation can be created.

To create a new calculation:

1. Click the **New** button.

| # | Cal | culation | Reference no | Link | c orde | Link orde | Link order Name | Cust | tomer | Customer Name | Pr |
|----|-----|----------|--------------|------|--------|-----------|-------------------|------------|-------|----------------------------|----|
| 1 | ⇔ | 244 | | | | | | | | | |
| 2 | ⇔ | 243 | 211 | | | | | - | C4000 | Earthshaker Corp.208 Holly | |
| 3 | ⇔ | 242 | 207 | | | | | \$ | C4000 | C40001 | |
| 4 | ⇔ | 241 | | | | | | | | | |
| 5 | - | 240 | | | | | | | | | |
| 6 | ⇔ | 239 | 200 | | | | | - | C4000 | C40001 | |
| 7 | ⇔ | 238 | | | | | | ⇒ ' | V6970 | Atid Computers | PF |
| 8 | ₽ | 236 | 199 | ⇔ | 105 | Closed | Earthshaker Corp. | ⇒ (| C4000 | Earthshaker Corp.208 Holly | |
| 9 | ⇔ | 235 | 197 | ⇔ | 104 | Open | Mashina Corp. | - | C4000 | Mashina Corp. | |
| 10 | ⇔ | 234 | | | | | | | | | |
| 11 | ⇔ | 233 | 195 | ⇔ | 103 | Open | Band & Lufel | - | C5000 | C50008 | |
| 12 | - | 232 | 192 | | | | | - - | C3000 | Microchips908 Darby Rd19 | |
| 13 | - | 231 | | | | | | | | | |
| 14 | ⇔ | 230 | | | | | | | | | |
| 15 | ⇔ | 229 | 173 | | | | | ⇒ (| C4000 | Stone29 hillside38949 Wash | |
| | | 228 | 171 | • | 90 | Open | ADA Technologies | | | ADA Technologies | |
| 17 | - | 227 | | | | | | | | C40003 | |
| | | 226 | 167 | | | | | | | C40002 | |
| 19 | -> | 225 | | | | | | - | C4000 | C40003 | |
| • | 2 | | | | | | | | | | |

2. Provide the calculation details. For an explanation on the available fields, see <u>Pre-</u>calculation field guide in the Beas online help.

| Master Data | |
|------------------------------|-----------------|
| Doc. no. | 245 / |
| Item 📫 | • |
| I-Version 📫 | Revision 0 |
| Variant × | |
| Configuration 📫 | · 🗸 |
| Project Valuation | |
| Bill of Materials 🛛 📫 | |
| Routing 📫 | |
| Description | New Calculation |
| Drawing number | |
| Project 📫 | · |
| Task 📫 | · |
| Customer 📫 | · |
| Name, Address | |
| Customer drawing no. | |
| Customer Item No. | |
| Change reason | |
| Changed on | ▼ |
| Changed by | ▼ |
| Additional Information | |
| Planned Completion Branch | |
| | ▼ |

- 3. Click the **Update** button to save the calculation under the document number provided in the Doc. no. field.
- 4. The pre-calculation result screen opens.

| Processing | View | Functions | | | | | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------|---------------------|----------------------|-------------|---------------|-------|---------|--------|--------|----------|
| 2 | Insert item | C New | () New | Çeate | ot | 6 | | 2 | × | | f |
| Edit | Insert tem | Assembly | Material | Operation | Cut | Cop | ру | Insert | Delete | Ca | lculate |
| Lot Size: 1 | Ma | rgCosts | Description | | | Quantity | Use | Co | st | DMC | T/N |
| F | P_S | | Finished Product | / Normal / Make to | Stock | 1.0000 Pcs | 5 | 0.0 | 0 | 24.08 | 0.5000 |
| 10 | RM | | Raw Material / No | rmal | | 1.0000 Pcs | | 1.000 | 0 | 1.0000 | 0. |
| 🚵 20 | RM_N | | Raw Material / No | rmal / Negative B | ом | -1.000000 Pcs | | 0.0 | 0 | 0.00 | 0. |
| 🚵 30 | RM_QC | | Raw Material / No | rmal / With QC | | 1.0000 Pcs | | 0.99000 | 0 0.9 | 990000 | 0. |
| 🙆 40 | RM_V | | Raw Material / No | rmal / Version | | 1.0000 Pcs | 5 | 1.000 | 0 | 1.0000 | 0. |
| 🙆 50 | RM_V_N | | Raw Material / No | rmal / Version / N | egative BC | -1.000000 Pcs | | 0.0 | 0 | 0.00 | 0 |
| 🙆 60 | RM_B | | Raw Material / Ba | tch | | 1.0000 Pcs | 5 | 1.000 | 0 | 1.0000 | 0 |
| 👌 70 | RM_B_N | | Raw Material / Ba | tch / Negative BO | м | -1.000000 Pcs | 5 | 0.0 | 0 | 0.00 | 0. |
| 歯 80 | RM_B_QC | | Raw Material / Ba | tch / QC | | 1.0000 Pcs | 5 | 1.090 | 0 | 1.0900 | 0. |
| 🛉 90 | RM_B_V | | Raw Material / Ba | tch / Version | | 1.0000 Pcs | 5 | 1.000 | 0 | 1.0000 | 0 |
| 📺 100 | RM_B_V_N | | Raw Material / Ba | tch / Version / Neg | gative BON | -1.000000 Pcs | 5 | 0.0 | 0 | 0.00 | 0 |
| 📺 110 | RM_S | | Raw Material / Se | rial | | 1.0000 Pcs | 5 | 1.000 | 0 | 1.0000 | 0 |
| 🍅 120 | RM_S_QC | | Raw Material / Se | rial / QC | | 1.0000 Pcs | 5 | 1.000 | 0 | 1.0000 | 0 |
| | RM_S_V | | Raw Material / Se | rial / Version | | 1.0000 Pcs | 5 | 1.000 | 0 | 1.0000 | 0 |
| 🍅 140 | RM_S_N | | Raw Material / Se | rial / Negative BO | М | -1.000000 Pcs | 5 | 0.0 | 0 | 0.00 | 0. |
| 🍅 150 | RM_S_V_N | | Raw Material / Se | rial / Version / Neg | gative BON | -1.000000 Pcs | 5 | 0.0 | 0 | 0.00 | 0 |
| 😳 10 | R-01-1T.STD.08 | H (OP-IN.STD. | (Internal Operation | STND001 - Stand | lard (defau | | 1.0 | 14.0 | 0 | 0.00 | 0.2500 |
| 📮 20 | R-EX (OP-EX) | | External Operation | n | | Pos | s 1.0 | 15.0 | 0 | 15.00 | 0. |
| 🙀 30 | R-01-1T.STD.24 | H (OP-IN.STD. | (Internal Operation | With QC - Standa | ard (defaul | | 1.0 | 14.0 | 0 | 0.00 | 0.2500 |
| Material | Costs by Bill of Ma | aterials | | | | | | | | 9.0800 | |
| Contract of Contra | processing | | 15.000 | | | | | | | 15.00 | |
| | laterial Costs | | | | | | | | | 24.08 | |
| Indirect | Material Costs | | 0.0% | | | | | | | 0.00 | |

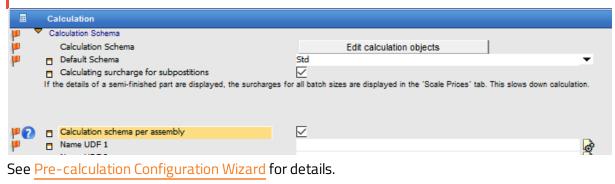
5. Click the **Update** button to save the calculation in the Precalculation list.

1.2.5 Configuring pre-calculation per assembly

Beas offers extensive functionality for cost calculation. This calculation configuration differentiates the way the calculation schemas are evaluated and displayed in the pre-calculation function.

1. Enable this functionality in the Configuration Wizard by marking the *Calculating surcharge for subpositions* and *Calculation schema per assembly* parameters.

Administration > System Initialization > Configuration Wizard > Calculation > Calculation Schema



2. Enable the options in the calculation schema.

This makes the new Display tab available.

| Administration > Setup > P | recalculation > | Calculation | Schema |
|----------------------------|-----------------|-------------|--------|
|----------------------------|-----------------|-------------|--------|

| Schema Tutorial | | | | × |
|--------------------------------------------------------------------------------|------------------------|---------|--|---|
| Master Data | Overhead Costs | Display | | |
| Schema | Tutorial | | | |
| Description | Standard | | | |
| Description | | | | |
| View Calculating surcharge Calculation schema p Automatically Calcula | er assembly | | | |
| Block changes Hide calculation sche | | | | |
| No scale prices | | Π | | |
| Always Determine Cu | urrent Material Prices | | | |
| <u>o</u> k | Cancel De | lete | | - |
| <u>-</u> | | | | 1 |

3. Define the cost elements and surcharges in the calculation schema.

| Schema Tutorial | | | | | |
|-------------------------------------|----------|------------|---------------|---------|---|
| Master Data Overhead Costs Display | | | | | |
| 'ype Description | Material | Production | Manufacturing | Default | |
| Travel Expenses | | | | | |
| Material Costs by Bill of Materials | | | | | |
| External processing | | | | | |
| Direct Material Costs | | | | | |
| Indirect Material Costs | | | | | |
| L+M costs | | | | | |
| Indirect Production Costs | | | | | |
| Costs of goods sold | | | | | |
| Shipping cost | | | | | |
| Sales and Administration | | | | | |
| Cost of Sales | | | | | |
| Profit Margin | | | | | |
| Net Sales Price | | | | | |
| | | | | | |
| Gross sales price | | | | | |
| | | | | | |
| Frofit margin Profit margin % | | | | | |
| Profit margin per hour | | | | | |
| - ron margin per nour | | | • | ¥. | |
| | | | | | |
| Edit <u>E</u> nd <u>N</u> ew | | | | | 5 |

4. In the Display tab the calculation elements can be assigned to be aggregated in a customized way.

We use the values from the objects defined in the calculation schema.

| Schem | na Tutorial | | | | | _ 🗆 🗙 |
|-------|--------------|----------------|----------------------|---------|--------------------------|-------|
| Mas | ter Data 🛛 🤇 | Overhead Costs | Display | | | |
| | Title | From O | bject | | Value From Object | |
| 1 | × Material | Material | Costs by Bill of Mat | erial 🔻 | Material Full Costs | - |
| 2 | × Labor | L+M co | sts | - | Production Full Costs | - |
| 3 | × Total | Sales an | d Administration | - | manufacturing Full Costs | - |
| 4 | × | | | | | |
| 5 | × | | | | | |
| 6 | × | | | | | |
| 7 | × | | | | | |
| 8 | × | | | | | |
| 9 | × | | | | | |
| 10 | × | | | | | |
| 11 | × | | | | | |
| 12 | × | | | | | |
| 13 | × | | | | | |
| 14 | × | | | | | |
| 15 | × | | | | | |
| 16 | × | | | | | |
| 17 | × | | | | | |
| 18 | × | | | | | |
| 19 | × | | | | | |
| 20 | × | | | | | |
| 21 | × | | | | | |
| | × | | | | | |
| - | <u>о</u> к | Cancel | | | | 53 |

5. Create a new pre-calculation with the schema that was set up and add sub-assemblies.

Sales – A/R > Precalculation

The standard pre-calulcation screen is shown. In our example, two items are added, two variants of an item where the raw material is at different cost.

| Processing | View | Function | s | | | | | | | | |
|------------|-------------------|-----------------|-----------------|---------------------|-----|--------------|---------------|-------|--------|--------|--|
| 2 | | | ٢ | • | ot | 6 | 2 × | ſ | Ì | | |
| Edit | Insert item | New Assembly | New Material | Create Operation | Cut | Сору | Insert Delete | Calc | ulate | | |
| t Size: 1 | M | argCosts | Description | | | Quantity Use | Cost | DMC | T/Min | LMC | |
| | | | New Calculation | | | 1.0000 | 0.00 | 30.00 | 176.00 | 352.00 | |
| 5 | 781-A | | Assemiby-1 | | | 1.0000 Pcs | | 10.00 | 88.00 | 176.00 | |
| | F79344 | | O-Ring, M6 2367 | | | 1.0000 Pcs | 10.00 | 10.00 | 0.00 | 0.00 | |
| 40 | 1600 (6) | | Sawing | | | 1.0 | 2.0000 | 0.00 | 88.00 | 176.00 | |
| 10 | 781-A | | Assemiby-1 | | | 1.0000 Pcs | | 20.00 | 88.00 | 176.00 | |
| | F79344 | | O-Ring, M6 2367 | | | 1.0000 Pcs | 20.00 | 20.00 | 0.00 | 0.00 | |
| á 40 | 1600 (6) | | Sawing | | | 1.0 | 2.0000 | 0.00 | 88.00 | 176.00 | |
| Material C | osts by Bill of M | laterials | | | | | | 30.00 | | | |
| | processing | | | | | | | 0.00 | | | |

6. Open the View tab and click on the **View Extended** button.

Beas Tutorials

| Precalculation | n No: -1 | | | |
|----------------|----------|-----------|------------------|---------------------|
| Processing | View | Functions | | |
| 1 | ¢¢ | \$ | Ř | 7 |
| Expand | Minimize | Full Cost | View Extended | Inactive visible |

The breakdown is shown according to the setup in the schema Display tab.

| recalculation No: -1 | | | | _ | _ |
|----------------------|-----------------|---------|--------------------------------|--------|--------|
| Processing View | Functions | | | | |
| ₽ ţ‡ | Ē | Y 🛃 | | æ, | e, |
| Expand Minimize | | | iew per View per tot Size 1 | Expand | Reduce |
| ot Size: 1 | Description | Quantit | y Material | Labor | Total |
| | New Calculation | 1.0000 | 30.00 | 352.00 | 411.92 |
| . 🛅 5 781-A | Assemiby-1 | 1.0000 | Pcs 10.00 | 176.00 | 200.76 |
| 20 F79344 | O-Ring, M6 2367 | 1.0000 | Pos | | |
| 40 1600 (6) |) Sawing | | | | |
| 10 781-A | Assemiby-1 | 1.0000 | Pcs 20.00 | 176.00 | 211.16 |
| 20 F79344 | O-Ring, M6 2367 | 1.0000 | Pcs | | |
| 40 1600 (6) |) Sawing | | | | |

7. Double-click on a position to open a screen with the Schema and the Result tabs.

The full schema is displayed for the selected assembly. The schema can be edited and the results for the calculation for this assembly are shown in the Result tab.

| External processing Indirect Material Costs Indit Material Costs Indirect Material Costs | Bill of Materials | Master Data | Scale Price | Schema | Result | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------|---------------------|-------------|----------|--------------------------|----------------------------|----------------------------|------|
| Direct Material CostsIndirect Materia | Description | n | iurcharge % MargCos | turcharge % | Full Cos | iurcharge Value MargCost | Surcharge Value Full Costs | s Surcharge per Unit MargO | Surc |
| Direct Material CostsImage: CostsImage | Material Costs by Bill of I | Materials | | | | | | | |
| L+M costs Image: mark state stat | External processing | | | | | | | | |
| Indirect Production Costs 3.00 4.00 0.00 0.00 0.00 Costs of goods sold Image: Cost of goods sold goods sold Image: Cost of goods sold goods | Direct Material Costs | | | | | | | | |
| Costs of goods sold Image: Costs of goods sold goods sold Image: Costs of goods g | Indirect Material Costs | | | | | | | | |
| Costs of goods sold Image: Costs of goods sold sold Image: Costs of goods sold sold Image: Costs of goods sold sold sold sold sold sold sold | L+M costs | | | | | | | | |
| Sales and Administration 3.00 4.00 0.00 0.00 0.00 Cost of Sales <td>Indirect Production Cos</td> <td>ts</td> <td>3.00</td> <td>0</td> <td>4.00</td> <td>0.00</td> <td>0.0</td> <td>0.00</td> <td></td> | Indirect Production Cos | ts | 3.00 | 0 | 4.00 | 0.00 | 0.0 | 0.00 | |
| Sales and Administration 3.00 4.00 0.00 0.00 0.00 Cost of Sales <td>Costs of goods sold</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | Costs of goods sold | | | | | | | | |
| Cost of Sales Image: Cost of S | Shipping cost | | 0.00 | 0 | 0.00 | 0.00 | 0.0 | 0.00 | |
| Profit Margin 0.00 6.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 | Sales and Administration | | 3.00 | 0 | 4.00 | 0.00 | 0.0 | 0.00 | |
| Net Sales Price Image: Constraint of the second of the secon | Cost of Sales | | | | | | | | |
| Discount 3.00 0.00 0.00 0.00 Gross sales price | Profit Margin | | 0.00 | 0 | 6.00 | 0.00 | 0.0 | 0.00 | |
| Gross sales price | Net Sales Price | | | | | | | | |
| Gross sales price Sales Price Profit margin Profit margin % | Discount | | 3.00 | 0 | 3.00 | 0.00 | 0.0 | 0.00 | |
| Profit margin Profit margin % | Gross sales price | | | | | | | | |
| Profit margin % | Sales Price | | | | | | | | |
| | Profit margin | | | | | | | | |
| | Profit margin % | | | | | | | | |
| Profit margin per hour | Profit margin per hour | | | | | | | | |

More tutorials are available on Calculation schema and Cost elements details.

1.3 Pre-calculation Configuration Wizard

Calculation Schema

A specific calculation schema can be set as default for pre-calculation runs.

Administration > System Initialization > Configuration Wizard > Calculation > Calculation Schema

| Config | uration wizard | | | | | | |
|----------|-------------------------------------------------------------|--------------------------|-------------------------------------------|--|--|--|--|
| 8 | Administration | | | | | | |
| | Financials | | | | | | |
| 44 | Business partner | | | | | | |
| | Sales | | | | | | |
| | Master Data | | | | | | |
| 19 | Production | | | | | | |
| | VE Quality control | | | | | | |
| - | Materials management | | | | | | |
| | Calculation | | | | | | |
| P 5 | Calculation Schema | | | | | | |
| je 👘 | Calculation Schema | Edit calculation objects | | | | | |
| 10 | Default Schema | Std | - | | | | |
| | Calculating surcharge for subpostitions | | | | | | |
| 1 | Name UDF 1 | | 2 | | | | |
| | Name UDF 2 | | 30 19 19 19 19 19 19 19 19 19 19 19 19 19 | | | | |
| | Name UDF 3 | | æ | | | | |
| | Name UDF 4 | | æ | | | | |
| 1 | Result field 1: Name | | | | | | |
| ۳ | Result field 2: Name | | | | | | |
| ۳ | Result field 3: Name | | | | | | |
| ۳ | Result field 4: Name | | | | | | |
| ۳ | Result field 5: Name | | | | | | |
| P | Result field 6: Name | | | | | | |
| | Result field 7: Name | | | | | | |
| Defin | es which schema (calculation objects) should be u | sed by default. | | | | | |

The default calculation schema can be set in the Default Schema field.

If there is nothing assigned as default, Beas to checks the item master data Calculation tab, Schema field.

Administration > System Initialization > Configuration Wizard > Calculation > Calculation Schema

| | Calculation | |
|------------|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| P 7 | Calculation Schema | |
| P | Calculation Schema | Edit calculation objects |
| 1 | Default Schema | Std |
| | Calculating surcharge for subpostitions | $\overline{\checkmark}$ |
| | If the details of a semi-finished part are displayed, the surcharge | es for all batch sizes are displayed in the 'Scale Prices' tab. This slows down calculation. |
| P 🕜 | Calculation schema per assembly Name UDF 1 | |

Calculating surcharge for subpositions: Determines the calculation method in the precalculation view.

Calculation schema per assembly: Administrates calculation schema for extended view.

| Administration > System Initialization > C Pricing | Configuration Wizard > Calculation > Precalculation > | | |
|-------------------------------------------------------|-------------------------------------------------------|--|--|
| Configuration wizard | | | |
| [₽] ■ Administration | | | |
| 🔮 Financials | | | |
| 🐣 Business partner | | | |
| 🕼 Sales | | | |
| 🐫 Master Data | | | |
| Production | | | |
| 🚰 Quality control | | | |
| ब्लू: Materials management | | | |
| Calculation | | | |
| Calculation Schema Precalculation | | | |
| View | View per Piece | | |
| | Minute | | |
| Pricing | | | |
| Material pricing | (1) Price List 01 | | |
| Material pricing 2 | No | | |
| Consider special price list | | | |
| Blanket agreement consider | $\overline{\mathbf{v}}$ | | |
| Value Negative Quantity? | \checkmark | | |
| Pricing negative Bill of Materials | Last Purchase Price 💌 | | |
| External production Calculate purchased items | | | |
| UDF | | | |
| Post calculation | | | |

Material Pricing: Configuration attribute to specify the pricing of the materials when valuating assemblies.

Material Pricing 2: Configuration attribute used to specify the pricing of the materials when valuating assemblies, it is used if there is no value defined for the Material Pricing attribute.

Consider Special Price List: Configuration attribute used to set whether to take into account the special price defined of a preferred vendor when valuating assemblies. This attribute has higher priority than Material Pricing option and relates only to pre-calculation and batch calculation.

Blanket Agreement Consider: Configuration attribute used to set whether to take into account a blanket agreement. If enabled, blanket agreements of type Specific are considered at pricing. If disabled, only the default pricing is used.

Precalcuation

Administration > System Initialization > Configuration Wizard > Calculation > Precalculation > View

| Bus Bus Sale Mas Pro | Aministration nancials usiness partner ales aster Data roduction uality control aterials management | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|----------------|--|
| Image: Second se | usiness partner ales aster Data roduction uality control aterials management | | |
| Image: Sale | ales aster Data roduction uality control aterials management | | |
| Mas Pro E | aster Data roduction uality control aterials management | | |
| Pro | roduction uality control aterials management | | |
| VE Qua | uality control aterials management | | |
| | aterials management | | |
| 📑 Mat | | | |
| | | | |
| Cal | alculation | | |
| 👂 🔻 Prei | alculation Schema recalculation | | |
| PO 🛛 | | fiew per Piece | |
| | Show Time by M Pricing | Inute | |
| | External production | | |
| | Calculate purchased items | | |
| | UDF | | |
| 👂 🕨 Pos | ost calculation | | |
| 🐴 Atte | tendance | | |
| 🔁 Sys | /stem | | |
| | | | |
| | | | |
| | | | |
| | | | |
| Defines, w | efines, with which factor the quantity and price is displayed. | | |

View: This configuration attribute determines whether the values shown in the pre-calculation are:

- per unit
- per lot size
- per fixed amount

For a fixed amount, the amount (for example, 1000) can be specified in the next line. The view setting can be changed in the calculation.

Administration > System Initialization > Configuration Wizard > Calculation > Precalculation > Show Time by

Show Time by: This configuration attribute determines whether the times in the pre-calculation are displayed in hours or minutes.