

TRIMIT Pre-Calculation

White Paper

This Document contains information about the functionality TRIMIT Pre-Calculation in TRIMIT 6.05

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TABLE OF CONTENTS

Pre-Calculation	3
Unit Cost Calculation (report 6037052)	3
Unit Cost Calculation Setup Filter	3
Item (Top-Down) Filter.....	3
Item (Bottom-Up) Filter	4
Unit Cost Calculation Setup (Table 6037023)	4

PRE-CALCULATION

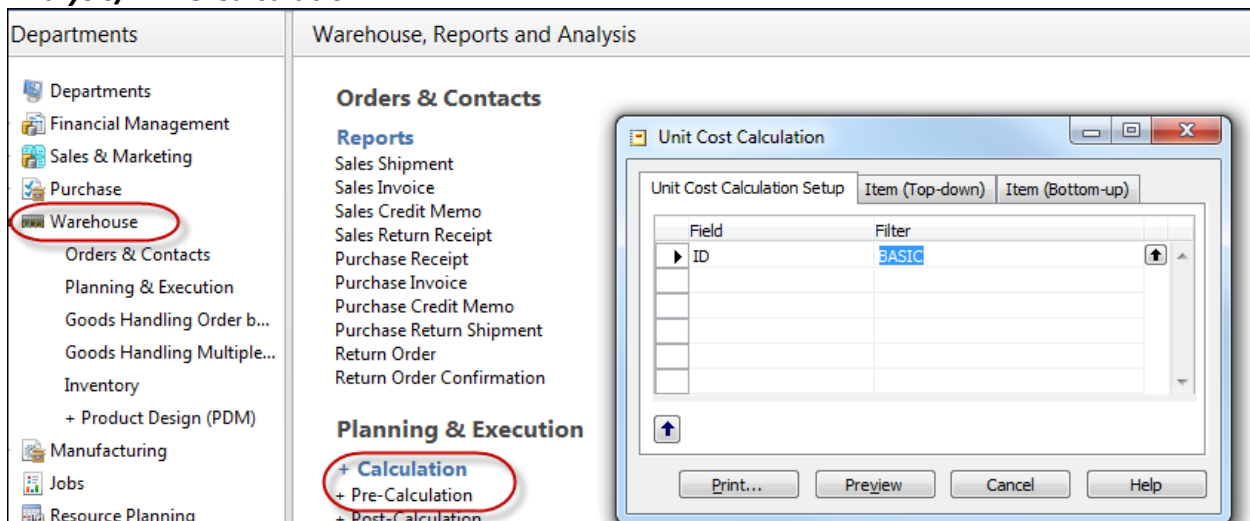
Use of **TRIMIT Pre-Calculation** requires use of **TRIMIT Standard Cost** and the setup of the parameter **Use Standard Cost Globally** in the **General Ledger setup** therefor has to be *Yes without G/L Posting* or *Yes with G/L Posting*.

The following we will describe the individual set-up parameters for the **TRIMIT Pre-Calculation** which is used to calculate the costs of items, update the **Calculated Unit Cost** fields on the **Item** table and indirectly to maintain the **Standard Unit Cost** fields on the **Item** table.

The calculation is executed via the report **6037030 Unit Cost Revaluation Report** that transfers the **Calculated Unit Cost** fields to the **Standard Unit Cost** fields and post the value changes on stock items to G/L.

UNIT COST CALCULATION (REPORT 6037052)

The report can be found in the Navigation pane via **Departments/Warehouse/Reports and Analysis/ + Pre-Calculation**



You can use the following table filters in the report:

Unit Cost Calculation Setup Filter

Choose the Calculation Setup ID you want to use in the Pre Calculation. A Value in this field is mandatory. Only the ID can be used as filter.

Item (Top-Down) Filter

The Filter is based on the **Item** Table and here you can enter the filters you want to use in connection with a **Unit Cost Calculation setup** where the parameter **Calculation Method** = *Top-Down*.

If the parameter **Calculation Method** in the **Unit Cost Calculation Setup** attached = *Bottom-Up* the values in this filter will be ignored.

Item (Bottom-Up) Filter

The Filter is based on the **Item** Table and here you can enter the filters you want to use in connection with a **Unit Cost Calculation Setup** where the parameter **Calculation Method** = *Bottom-Up*.

If the parameter **Calculation Method** in the **Unit Cost Calculation Setup** attached = *Top-Down* the values in this filter will be ignored.

UNIT COST CALCULATION SETUP (TABLE 6037023)

This section describes the individual fields in the table **6037023 Unit Cost Calculation Setup**. It can be found via **Departments/Warehouse/Administration/+ Unit Cost Calculation Setup**.

BASIC

General

ID:

BASIC

Unit Cost Format:

Total Unit Cost

Accumulated Calculation:

☒

Calculated Order Volume:

0,00

Include Operations:

All

Use Unit Cost Type:

Standard Unit Costs

Print Calculation:

☒

Date Direct Unit Cost:

Calculate CM per Hour:

☐

Break down to BOM Level:

All Levels

Omit Scrap %:

☐

Unit Cost Management Level:

0

Omit Waste:

☐

Use Order Value at Inbound Item:

No

Log Error Message:

☐

Update Calculated Unit Cost:

☐

Weight Calculation:

☐

Update Item Unit Price:

☐

Unit Volume Calculation:

☐

Omit Update by Missing Unit Cost:

☐

Calculation of Parcels:

☐

Calculate blocked Item:

☐

Recalculate Low-Level Code of the Item:

☐

Save Temporary Buffer:

☐

Omit Calculation of Semi-Finished Goods:

☐

Calculation Method:

Top-down

Description of the fields:

ID

The Name of the Unit Cost Setup (code 20)

Accumulated Calculation

This parameter decides how the values in the **Calculated Unit Cost** Fields on the **Item** table are updated.

No	The Calc. Unit Cost Total on items on underlying levels is transferred to the Calc. Unit Cost Material Field on the item on the overlying level.
Yes	The Calc. Unit Cost Material , Calc. Unit Cost Time , Calc. Unit Cost Machine and Calc. Unit Cost Overhead Fields on items on underlying levels are transferred to the corresponding Fields on the item on the item on the overlying Level This means that at each level it is possible to see e.g. the wage expenditure as an accumulated value at the given level including the wage expenditure at underlying levels.

Include Operations

You can choose between the following three options:

All	BOM Lines of Type = <i>Item, Setup, Operation, [Sub-supplier Work]</i> are included in the calculation.
Only Items	Only BOM Lines of Type = <i>Item</i> is included in the calculation
Only Operations	Only BOM Lines of Type = <i>Operation</i> is included in the calculation

Print Calculation

No	The report will react as a "Processing-only" report at Preview/Print (the report sections are suppressed).
Yes	The report sections are visible and you can use Preview /Print to View/Print the calculations.

Calculate CM per Hour

This parameter is used to decide whether or not, to print a calculated contribution margin (CM) per hour at the bottom of each calculation. The total time on which this calculation is based, is calculated based on all the requiring levels of the calculation.

Omit Scrap %

If Yes is entered, any existing scrap will be omitted from the calculation.

Omit Waste

If Yes is entered, any existing waste will be omitted from the calculation.

Log Error Messages

If an error occurs during the generation of the itemized list structure, the calculation will normally stop with an error message.

If instead you wish to have error messages logged, you must set this parameter to *Yes*. This way the calculation will log error messages caused by errors encountered in the itemised list structure and proceed to the next article. The calculation will not be carried out for articles with structural errors.

Unit Volume Calculation

If this parameter is set to *Yes* the **Volume**, **Net Weight** and **Gross Weight** fields on the **Item** table will be calculated and updated based on the given or formula-based calculated weight at the lowest level of the requesting itemized list structure.

Calculation of Parcels

If this parameter is set to *Yes* the **Units per Parcel** field on the **Item** table will be calculated and updated based on the given itemized list structure.

Recalculate Low-Level Code of the Item

If this parameter is *Yes*, initially all items in the Item table will be reset to **Low-Level Code** equal to *1* and during the calculation the **Low-Level Code** on the Item table is set to the **Low-level Code** calculated in the actual Pre-Calculation buffer.

This parameter can only be used if the **Unit Cost Calculation** report is called without filters (*Item (Top-Down)* and *Item (Bottom-Up)* filters = "").

This parameter is normally used together with the parameter **Omit calculation of Semi-Finished goods** = Yes.

Omit Calculation of Semi-Finished Goods

This parameter is normally used together with the parameter **Recalculate Low-Level Code** = Yes. If this parameter is set to Yes, all items with a calculated Low-Level Code higher than *one* is omitted from the calculation, which prevents that an item in the structure is calculated more than once.

Unit Cost Format

This parameter is only influencing how the cost of material, wage, machine and overhead, are shown in the report at printout.

You can choose between the following three options:

Price per Unit	All prices are printed as prices per unit for each individual component.
Total Unit Cost	All prices are printed as price per unit for each component multiplied by the number of units
Overall Total Unit Cost	The material, wage, machine and overhead are printed as the price per unit for each individual component, whereas the total price is printed as price per unit for the individual component multiplied by the number of units

Calculated Order Volume

This parameter is of special relevance in relation to setting up and taking down a production because the associated costs only adds to the calculation the result of "*Setup*" Costs on the BOM Lines divided with the **Calculated Order Volume**.

If you want to calculate your cost for a specific order quantity for all the items in your report filter you can enter it here.

If the **Calculated Order Volume** is set to 0 the calculation will apply the **Reorder Quantity** from the **Item** table.

If the **Reorder Quantity** for the Item has also been set to 0, the **Calculated Order Volume** will automatically be set to 1.

Use Unit Cost type

This parameter is relevant for the bottom level of the itemized list structure, and decides which price the calculation is based on.

Standard Unit Costs	The Std. Unit Cost Total field on the Item card of the Item on Bottom Level is used as Base of calculation.
Calculated Unit Cost	The Calc. Unit Cost Total field on the Item card of the Item on Bottom Level is used as Base of calculation.
Direct Unit Cost	The Purchase Price on the Item on Bottom Level is used as Base of Calculation. The price search is executed according the settings on the Pre Calculation ID., and the Item.

NOTE

If a formula has been applied to calculate cost prices in any of the itemized lists, the calculated cost prices will always be applied whenever they are higher than 0.

Date Direct Unit Cost

If you fill in a date in this field, the purchase price search will use the filter from **OD** until the **Date Direct Unit Cost**, otherwise the purchase price by the default use the filter **OD** until the **WORKDATE**.

This field works together with the field **Use Unit Cost Type** and is active if the **Use Unit Cost Type = Direct Cost**.

Dim. Code Direct Unit Cost

If you are using a Dimension Code in the table **Purchase Prices** you have to fill in the Dimension Code that should be used in the Price search by the Calculation.

This field is only active if the field **Use Unit Cost Type = Direct Cost**.

Dim. Value Direct Unit Cost

This field is directly connected to the **Dim. Code Direct Unit Cost**. If the **Dim. Code Direct Unit Cost** has been filled in you have choose the Dimension value that should be used for should be used in the Price search by the Calculation.

This field is only active if the field **Use Unit Cost Type = Direct Cost**.

Break down to BOM levels

This parameter controls how far down in the BOM structure the calculation is executed. You can choose between the following five options:

One Level	The BOM is generated one level below the calculated item and stopped
All levels	The full BOM structure is generated
Unit Cost Control Level	The Generation of the BOM is stopped when an Item with a Management level = Unit Cost Management Level of the calculation Item is reached.
Purchase Level	The Generation of the BOM is stopped when an Inbound Item has the Replenishment System = Purchase .
Setup	The BOM is generated to the Management level on the Inbound Items is equal to the value in the field Unit Cost Management Level of the Unit Cost Calculation Setup page. If this Option is chosen you have to fill in the Unit Cost Management Level field

Unit Cost Management Level

This field works together with the field **Break down to BOM Levels** and has to be filled in if the **Break down to BOM Levels = Setup**.

Use Order Value at Inbound Item

This parameter controls at which quantity the items on a lower level are cost calculated. This can have influence on the **Calc. Unit Cost Machine** or the Purchase Price search (If **Use Unit Cost Type = Direct Cost**) on the individual items.

You can choose between the following three options:

No	The Reorder Quantity on an Inbound Item in the structure will not be taken in consideration and the Calculated Order Volume is used.
Order Volume is	If the Reorder Quantity of an Inbound Item in the structure is larger than the

Larger than Calculated Order Volume	Calculated Order Volume , the Reorder Quantity of the Inbound Item will be used in the calculation, otherwise the “Calculated Order Volume” will be used.
Always	The Reorder Quantity of an Inbound Item will always be used in the calculation, even if it is smaller than the Calculated Order Volume .

Update Calculated Unit Cost

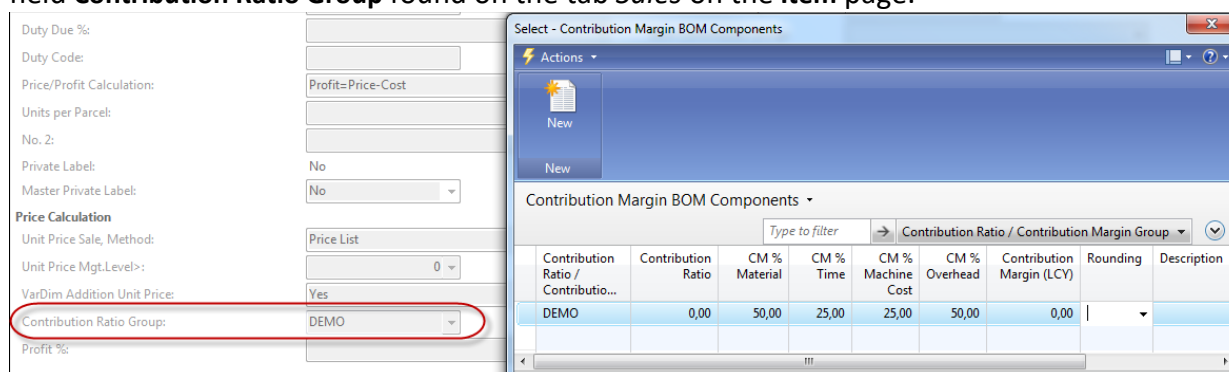
If this parameter is set to Yes, the following fields with relation to the articles in the full-itemized structure will be updated:

- Calc. Unit Cost Material
- Calc. Unit Cost Machine
- Calc. Unit Cost Time
- Calc. Unit Cost Overhead
- Calc. Unit Cost Total

Update Item Unit Price

This parameter is only relevant if you use the **Unit Price** field on the **Item** table.

If this parameter is Yes, the **Unit Price** on the **Item** table is calculated with basis of the **Calculated Unit Cost** fields on the **Item** table and the **Contribution Margin BOM Components** record set via the field **Contribution Ratio Group** found on the tab **Sales** on the **Item** page.



The screenshot shows the 'Select - Contribution Margin BOM Components' dialog box. The 'Contribution Ratio Group' is set to 'DEMO'. The table below shows the selected components:

Contribution Ratio / Contribution...	Contribution Ratio	CM % Material	CM % Time	CM % Machine Cost	CM % Overhead	Contribution Margin (LCY)	Rounding	Description
DEMO	0,00	50,00	25,00	25,00	50,00	0,00		

Omit Update by Missing Unit Cost

The value in this field is only taken in consideration if the parameter **Update Calculated Unit Cost** = Yes.

If an item in the structure has a **Calc. Unit Cost Material** = 0, the update of the **Calculated Unit Cost** fields of the Items itself and all Items above in the structure is omitted.

An Item where the update has been omitted is logged, and can be seen in the “Dialog log”

Calculate blocked Item

If this parameter is Yes, blocked Items will be calculated, otherwise they are skipped.

Save Temporary Buffer

If this parameter is set to No the existing buffer will be printed. However, since the buffer is generated continuously for each Item, the parameter is only relevant, if the calculation has been carried out and there is a wish to reprint it for any individual Item.

NOTE

The Buffer used is the Table **6037016 Prod. Line Buffer**.

Calculation Method

This parameter controls in which direction the calculation is executed.

You can choose between the following two options:

Top-Down	The Items in the Pre Calculation Report filter Item (Top-down) will be used as the basis of the calculation. The Item structure will be generated and calculated from the Items at this level and downwards.
Bottom-Up	The “Where Used List” of the Items in the Pre Calculation Report filter Item (Bottom-up) is generated and the Top level Items found will be used as the basis of the calculation. The Item structure will be generated and calculated from the found Top level items at this level and downwards.

NOTE

If you choose the **Calculation Method** = *Bottom-Up* be aware to set filters in the Pre Calculation report Bottom-Up section, as the generation time due to the pre generation of the where used List is extensive.