



Documentation:

Advanced Units

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1 Introduction

Welcome to the official manual of the Dynavision Advanced Units module.

This extension is developed with the goal to manage master data more efficiently. Unit conversions can be grouped unit classes and they can be applied to items. *Example given: it is possible to define that a crate contains 12 PCS, that a meter contains 100 cm, that a pallet contains 160 boxes, etc.*

These enhancements work in sync with existing item units.

A calculator makes it easy to enter sales orders using the invoicing Unit of Measure of an item. The conversion is done on the fly, and the correct conversion of the item Unit of Measure is done and inserted instantly on the sales document. The conversion takes into account which rounding precision has been configured for the item (up, nearest or rounding down methods).

It is possible to set a minimum order quantity that must be respected when the item is sold on a order, and a possible surcharge if the minimum quantity is not respected.

If an item needs to be sold in a certain multiple of a quantity, *e.g. always in a multiple of 6*, then the order multiple can be configured for the item. This will make sure that on the order, this will be respected.

The app also offers additional weight calculations which are carried over to all transactional documents and warehouse documents, and the possibility to set up an additional transfer Unit of Measure on the item card and the SKU.

The replenishment parameters can be set up according to the chosen unit of measure, these are then recalculated to the standard fields.

2 Installation

2.1 Extension

The Dynavision Advanced Units module is a separate Business Central extension.

1. Choose the search icon, enter **Extension Management**, and then choose the related link.
2. Choose **Manage** in the Action bar on the page and choose action **Extension Marketplace**.
3. In the search bar, enter **Dynavision Advanced Units** and install this app.
4. Activate the trial as described in following [Get Started guide](#).

3 Configuration

3.1 Advanced Units Setup

Choose the search icon, enter **Advanced Units Setup**, and then choose the related link. This page contains some mandatory settings and options that needs to be set in order for the user to take advantage of all the features in this app.

1. Unit Class Tab

a. Auto-Create Item Unit of Measures

When this option is enabled, the Item Units of Measures will be automatically created when assigning a unit class to an item.

Remark: *for this to work, the Base UOM of the item needs to be set and needs to match the Unit of Measure conversions that need to be added. E.g. when the UOM BOX 06 needs to be added, configured as BOX 06 = 6 PCS; then PCS needs to be set as Base UOM on the item.*

2. Item Journal Tab

a. Default Unit of Measure Item Journal

Specifies which default Unit of Measure needs to be used when entering an item in the Item Journal.

The options are:

- i. Base Unit of Measure,
- ii. Sales Unit of Measure, and
- iii. Purch. Unit of Measure.

3. Weights Tab

a. Include Assembly Items

Include the assembly BOM in the weight calculation of the item Units of Measures. This field can only be enabled when the **Automatic calculation weights item UOM** is enabled. When this option is enabled, any change of weight within the assembly BOM of the item will also automatically adjust the weight of the item.

4. Invoicing Units Tab

a. Show Invoicing Units

This option specifies if the Invoicing Unit fields are shown. If enabled, the fields will be shown on the documents, price list lines, etc.

If this option is disabled, the fields will not be visible on the pages.

In the **Advanced Units Setup** choose the action **Sync Item Units of Measure** in case the internal Item Unit buffer table is not yet automatically filled in with the available units (*can happen when the module was not yet activated or when importing using Rapid Start*). Using this action this internal Item Unit buffer table will be filled up (again).

3.2 Units of Measure

The **Units of Measure** page can be accessed in two ways.

Option 1

On the **Advanced Units Setup** page, choose the action **Units of Measure**.

Option 2:

Choose the search icon, enter **Units of Measure**, and then choose the related link.

On the page that opens, specify the Units of Measures that can be used for the items.

1. Code

Specifies a code for the Unit of Measure, which you can select on the Item and Resource Card.

2. Description

The description of the Unit of Measure.

3. Standard Code

Specifies the unit of measure code expressed according to the UNECE Rec20 standard in connection with the electronic sending of sales documents.

For example, when sending sales documents through the PEPOL service, the value in this field is used to populate the UnitCode element in the Product group.

4. Method

The default Rounding Method used when converting and calculating the item invoicing units of measure on documents.

The options are:

- a. Nearest,
- b. Up, and
- c. Down.

5. Qty. Rounding Precision

The default Rounding Precision used when converting and calculating the item invoicing units of measure on documents.

It is possible to set up translations for the Units of Measure line by choosing the action **Translations**, found by choosing **Related, Unit** in the Actions bar.

3.3 Unit Classes

A unit class is a group of units that can be configured when there are many items with the same Unit of Measure.

Example given, the unit class FRUIT with the most common units Box (6 PCS), PCS and CRATE (24 PCS).

The unit class is set up to contain the most common Units of Measures and this Unit Class can be assigned to the item on the Item Card. It is always possible to add additional Unit of Measures to an item, independently from the Unit Class.

The **Unit Classes** page can be accessed in two ways.

Option 1

On the **Advanced Units Setup** page, choose the action **Unit Classes**.

Option 2:

Choose the search icon, enter **Unit Classes**, and then choose the related link.

On the page that opens, specify the Unit classes that can be assigned to items.

1. Code

The Code of the Unit Class, which you can select on the Item and Resource Card.

2. Description

The description of the Unit Class.

3. Default Sales Unit of Measure

Specifies the unit of measure to use as sales unit of measure for items with this unit class.

4. Default Purchase Unit of Measure

Specifies the unit of measure to use as purchase unit of measure for items with this unit class.

5. Default Transfer Unit of Measure

Specifies the unit of measure to use as transfer unit of measure for items with this unit class.

6. No. of Conversions

The Unit of Measure Conversions that have been configured to calculate and convert the Base Unit of Measure from the Item to the Invoicing Unit of Measure that is noted on the sales documents. Multiple conversions can be set up. (See chapter Conversions)

7. Fixed Conversions

Specifies whether the Unit of Measure Conversions are fixed or can be changed per Item Unit of Measure. This means that the configuration of the existing set up conversions cannot be changed when assigned to an item. It is however still possible to remove the lines with the unit conversions that do not apply to the item to which the class is assigned.

3.4 Conversions

It is possible to configure how item unit of measures need to be converted into other unit of Measures that are noted on the sales documents. This functions as a template to create new unit of measures for an item.

3.4.1 Unit of Measure Conversions

The **Unit of Measure Conversions** page can be accessed in two ways.

Option 1

On the **Advanced Units Setup** page, choose the action **Conversions**.

Option 2:

Choose the search icon, enter **Unit of Measure Conversions**, and then choose the related link.

On the page that opens, specify the Unit classes that can be assigned to items.

1. Unit Class Code

The Unit Class Code to which the conversion method is linked.

Linking a Unit Class Code has the advantage that conversions of Unit of Measures can be quickly assigned to an item by assigning this Unit Class Code on the Item Card (*Similar to assigning an item category and its attributes*).

Conversions that are not linked to a unit class will automatically apply to all articles that use the from and to Unit of Measure Code.

2. From Unit of Measure Code

The Unit of Measure from which the conversion must be done.

3. Conversion Factor

Specifies the quantity of the to Unit of Measure per from Unit of Measure. *E.g. 1 PALLET (FROM) is 12 BOXES (TO).*

4. To Unit of Measure Code

The Unit of Measure to which the from Unit of Measure needs to be converted.

5. Description

Shows a comprehensible description of the conversion setup.

6. Rounding Method

The Rounding Method used when performing the conversion.

The options are:

- a. Nearest,
- b. Up, and
- c. Down.

6. Qty. Rounding Precision

The Rounding Precision used when performing the conversion.

7. Use as Invoicing Unit

Specifies if the conversion will be used in the Item units or in the Invoicing units.

To calculate quantities in any item Unit of Measure, choose the action **Unit Calculator**. For the line that was selected in the conversion page, the **Unit Calculator** screen opens. In this screen it is possible to enter a certain quantity of the From Unit of Measure to see how this will be converted into the To Unit of Measure. When choosing the number in the column Quantity rounded, it is possible to view the calculation details for the conversion.

3.4.2 Configure Conversions on Item Card

On the **item Card** following fields are added by Dynavision Advanced Units:

1. General Tab

a. Unit Class Code

Select the Unit Class Code that will be used to immediately assign the configured conversions in this Unit Class.

After selecting the Unit Class Code, the item units need to be first manually be pushed through in the Unit of Measures page for this item if the option **Auto-Create Item Unit of Measures** is not enabled.

To create these unit of Measures from the Unit Class, choose the three points button next to the Base Unit of Measure field in order to open the edit page for the item Units of Measure, or choose action **Units of Measure** by choosing **Related, Item** in the Actions bar in the Item Card. Choose the action **Create from Unit Class**, which can be found when selecting the arrow at the action **New**.

If this option is enabled, the action will be performed automatically when validating the Unit Class on the Item Card.

This field can be found in the Items Tab on the Item Card.

2. Prices & Sales Tab

a. Sales Invoicing Unit of Measure

Specifies the Invoicing unit of measure code used when you enter the item on sales documents and/or invoice the item. This Unit of Measure does not affect inventory.

The sales price list will also recalculate the price and show the price in this Invoicing Unit of Measure. Sales price lists have also been expanded to include this billing unit. *The value of the Item Card will be noted on the Sales documents, not the value in the sales price list if changed there.*

b. Open Unit Calculator (Sales)

This is mainly used in combination with invoicing units of measures.

Specifies when the Unit Calculator automatically opens on a sales document. This calculator allows to visualize the conversion for this item.

Within this page it is also possible to indicate in which unit of Measure the sale has to be made. When a number is entered into this calculator, the conversion for each unit of Measure will be visualized.

The options are:

- i. **Item**: the calculator will open after validation of the Item No.
- ii. **Variant**: the calculator will open after validation of the Variant Code.

iii. **Leave blank** to manually open.

To open the calculator in the sales order/quote choose action **Unit Calculator** found by choosing **Line, Functions** in the Actions bar on the **Lines Tab**.

c. *Minimum order quantity and order multiple functionalities (see chapter 3.6).*

3. Replenishment Tab

a. **Purchase Invoicing Unit of Measure**

Specifies the Invoicing unit of measure code used when you enter the item on purchase documents. This Unit of Measure does not affect inventory.

The purchase price list will also recalculate the price and show the price in this Invoicing Unit of Measure. Purchase price lists have also been expanded to include this billing unit. *The value of the Item Card will be noted on the Purchase documents, not the value in the purchase price list if changed there.*

b. **Transfer Unit of Measure**

Specifies the default unit of measure code used when you transfer the item. This Unit of Measure Code will be inserted in the transfer documents where this item is entered.

This Transfer Unit of Measure will also be used in the Requisition and planning worksheet as well as in the item reclassification journal.

This field can be found in the Replenishment Tab on the Item Card.

4. Planning Tab

a. In the **Planning Tab** there are additional fields available to enter the quantities according to the selected purchase Unit of Measure on the Item Card.

These quantities will be recalculated into the standard Business Central fields in the **Planning Tab** using the Base Unit of Measure that has been set in the **Item Tab**, if this is the replenishment method. If the replenishment method is set to transfer, the transfer UOM will be used in the calculations.

i. **Remark:** *when the purchasing/transfer unit of measure is changed (depending on the selected replenishment system), the Dynavision planning parameters will be recalculated.*

If the recalculation yields an invalid quantity, the value of the Dynavision fields will be set to 0 and a message will be shown.

The BC planning parameter fields are not reevaluated.

ii. *The order multiple parameter in the purchase UOM will also be recalculated. The Base application field Order multiple field will not be changed.*

iii. *The same logic applies to SKU cards. If there is an invalid value in (one of) the SKU cards, the list of SKU cards with the corresponding replenishment system will be shown.*

b. **Open Unit Calculator (Purchase)**

Specifies when the Unit Calculator automatically opens on a purchase document. This calculator allows to visualize the conversion for this item. Within this page it is also possible to indicate in which unit of Measure the purchase has to be made. When a number is entered into this calculator, the conversion for each unit of Measure will be visualized.

The options are:

- i. **Item:** the calculator will open after validation of the Item No.
- ii. **Variant:** the calculator will open after validation of the Variant Code.
- iii. **Leave blank** to manually open.

To open the calculator in the purchase order/quote choose action **Unit Calculator** found by choosing **Line, Functions** in the Actions bar on the **Lines Tab**.

3.4.3 Item Units of Measure

On the Units of Measure page, extra fields are added in order to work with different Unit of Measures.

choose the three points button next to the **Base Unit of Measure** field in order to open the edit page for the **item Units of Measure**, or choose action **Units of Measure** by choosing **Related, Item** in the Actions bar in the Item Card.

1. Qty. in Purchase Invoicing Unit of Measure

Specifies the quantity in the purchasing invoicing unit of measure. This value is calculated based on the specified **Purchase Invoicing Unit of Measure** on the Item Card. This Unit of measure is used as a base to calculate the quantities for the other purchase invoicing Units of Measure.

2. Tare Weight

Specifies the Tare Weight of one item unit when measured in the specified unit of measure of the line. This weight will be available on the sales order, this makes it possible to track the entire weight of the order.

When there is a Reusable Package attached to an item, the weight of the Reusable Package item will be included.

If Dynavision Advanced Units is combined with the Excise Duties module, these weights are also carried over on the AAD document (see excise manual).

3. Gross Weight

Specifies the Gross Weight of one item unit when measured in the specified unit of measure of the line. This weight will be available on the sales order, this makes it possible to track the entire weight of the order.

When there is a Reusable Package attached to an item, the weight of the Reusable Package item will be included.

If Dynavision Advanced Units is combined with the Excise Duties module, these weights are also carried over on the AAD document (see excise manual).

4. Rounding Method

Specifies the Rounding Method used for the conversion.

3.5 Minimum order quantity and order multiple restrictions

3.5.1 Minimum order quantity + surcharge

It is possible to define the minimum order quantity for an item, and (optionally) a surcharge in case the minimum order quantity is not respected on sales orders.

1. Navigate to the **Item Card** of the item for which the minimum order quantity needs to be configured.
2. In the Tab **Prices & Sales**, specify the requested parameters for the functionality.
 - a. **Minimum Order Quantity (Base)**
Specifies the minimum required base quantity for an item on a sales order.
***Remark:** when a quantity is filled in that is not a multiple of the filled in Order Multiple value, a notification will be shown.*
 - b. **Apply Minimum Order Quantity**
Select how the quantity on a sales order needs to be rounded.
 - i. **Round to minimum:** the minimum order quantity will automatically be applied on sales documents.
 - ii. **Ask:** The user will receive a message in which he should determine how the quantity should be rounded.
 - c. **Minimum order quantity required**
Specifies if quantities below the minimum order quantity are accepted or not.
This is only available when the option Ask is chosen in previous step.

***Remark:** the order modifiers will also be applied on blanket orders, to make sure that the quantifiers are always respected.*

On blanket orders, the ask option will not prompt a dialog when filling in the qty to ship field.

3.5.2 Order multiple

On the item card, an order multiple parameter can be set. This implies that the item needs to be sold in a certain multiple of a quantity, *e.g. the item can only be sold in quantities that are a multiple of 6 bottles.*

1. Navigate to the **Item Card** of the item for which the minimum order quantity needs to be configured.
2. In the Tab **Prices & Sales**, specify the requested parameters for the functionality.
 - a. **Order Multiple (Base)**
Specifies the coefficient that has to be used to modify the base quantity of sales orders. *E.g. the item needs to be sold in a multiple of 5 pieces.*
Remark: *If there was a quantity filled in in this field, and the sales UOM is changed, the value will be updated accordingly.*
 - b. **Apply Order Multiple (Sales)**
Specifies if the Order Multiple should be enforced on sales documents.
 - i. **Round to lower:** the entered quantity will be rounded to the lower level.
 - If the Order multiple required is enabled and the entered quantity is lower than the set Order Multiple (Base) value, the quantity will be rounded to 0.
 - If the Order multiple required is disabled and the entered quantity is lower than the set Order Multiple (Base) value, the quantity will not be rounded.
 - ii. **Round to upper:** the entered quantity will be rounded to the upper level.
 - iii. **Ask:** the user will receive a message in which he should determine how the quantity should be rounded.
 - c. **Order multiple required**
If enabled, quantities are only accepted if they are in order multiples. If disabled, free entry of any quantity is allowed.

3.5.3 Surcharge

On the item card, surcharge can be set for when the quantity of the item on a sales document is below a certain set quantity.

1. Navigate to the **Item Card** of the item for which the minimum order quantity needs to be configured.
2. In the Tab **Prices & Sales**, specify the requested parameters for the functionality.
 - a. **Surcharge Condition**

Specifies when the surcharge needs to be applied for the item on a sales document.

 - i. **Below minimum order quantity**

Specifies that the surcharge needs to be applied when ordering less than the minimum order quantity.
 - ii. **Below default quantity**

Specifies that the surcharge needs to be applied when ordering less than the default quantity that is configured on the item card in the field **Default Quantity (sales UOM)**.
 - b. **Surcharge amount**

This surcharge will be added to the Unit price of the item on the sales line.
*This field follows the logic of the option **Price Includes VAT**. If this option is enabled, the surcharge in this field is defined as surcharge incl. VAT, if not, this will contain the amount excl. VAT.*
 - c. **Surcharge amount Excl. VAT**

Specifies the surcharge excluding VAT to apply when ordering less than the minimum order quantity.

3.6 Weights

In Dynavision Advanced Units, there are functionalities added to be able to manage weights on item level and document level.

3.6.1 Advanced Units Setup

This option needs to be enabled, in order to be used.

1. Choose the search icon, enter **Advanced Units Setup** and choose the related link.
2. Enable the option **Automatic Calculation Weights Item UOM**. When enabled, the automatic calculation of the weight fields on the item units of measure page will be enabled.
3. Enable the option **Include Assembly Items** if the assembly items have to be included in the weight calculation of the main item.

3.6.2 Item Card

When the option **Automatic Calculation Weights Item UOM** is enabled, and there are changes made on the item card to the fields **Net Weight** or **Gross Weight**, these changes will be synced to the Item Unit of Measure in added fields **Weight**, **Tare Weight** and **Gross Weight**. *Weight Extra Packaging can be completed to also include this weight in the calculated gross weight.*

Remark: *there is no synchronization from the item unit of measures to the item card, the automatic calculation only works when changing the weights on the item card.*

If **Dynavision Reusable Packaging** is installed, the weight of the linked Reusable Packaging that is configured for that item will also be noted on the line of the Item Unit of Measure, in field **Reusable Packaging Weight**. This will also be included in the calculation of the gross weight of the item UOM.

When the weights are changed on the Reusable Packaging Items, this can be pushed through to the item UOM of the items on which the reusable packaging is linked.

On the **Item Units of Measure or Item Card** page, the action **Recalculate Weights** can be used when the calculation is not executed manually or needs to be refreshed.

3.6.3 Combi items/assembly items – Dynavision Reusable packaging

An option is added on items that consist out of other items, **Reusable Packaging from Assembly BOM**, which determines if the weights of the linked Reusable packaging items in the BOM need to be included in the total weight of the main item.

3.6.4 Usage on Documents

In standard Business Central, only the Net and Gross weights from the item card are used. Dynavision Advanced Units added functionalities to also be able to use the weights that are defined on the Item Unit of Measures, which can be added through personalization, this is e.g. Total Net/gross weight to ship/receive and the item unit of measure fields of the net weight and gross weight.

There are also total fields, that calculate the total weights of the item quantities on the line.

The weights are recalculated based on the information that is defined on the document line and are transferred to all posted documents and can be consulted on the statistic pages.

3.7 Item Invoicing Units of Measure

The Invoicing Units of Measure for an item can be defined per item. This is a UOM that is not defined as item unit of measure, but is used only in the invoicing of the item as invoicing UOM.

3.7.1 Show Invoicing Units

First, make sure that the option **Show Invoicing Units** is enabled in the **Advanced Units setup**, described in section 3.1.

3.7.2 Configure Item Unit of Measure

1. Navigate to the item for which the invoicing UOM needs to be configured.
2. Choose **Related, Item, Units of Measure**, or select the three dots that are displayed next to the field in which a Unit of Measure can be selected (e.g. base unit of measure).
3. Set up the item units of measure.
4. In the tab **Item Invoicing Units of Measure**, add a line for each possible invoicing Unit of Measure that can be used when selling or purchasing the item.
 - a. **Code**
Select the Unit of Measure that needs to be added as Invoicing Unit of Measure.
 - b. **Qty. in Base UOM**
Specify the quantity in the base unit of measure.
 - c. **Qty in Current UOM**
Specify how much of the invoicing UOM is contained in the base unit of measure; e.g. *1 PACK = 1.5 M²*.
 - d. **Qty. per Unit of Measure**
Will be automatically filled in and specifies how many of the base Unit of Measure is contained in 1 unit of the invoicing Unit of measure. E.G. *0.66 PACK = 1 M²*.
 - e. **Description**
Shows a comprehensible description of the Item Invoicing Unit of Measure setup.
 - f. **Rounding Method**
Specifies how the quantity needs to be rounded when a comma number is added to the field.
The options are:
 - i. Nearest,
 - ii. Up, and
 - iii. Down.

g. Conversion Type

Specifies how quantities between units of measure and invoicing Units of Measure are converted.

i. Unit <> Invoicing Unit; **Fixed (Default)**

Any change to either the quantity, or the Invoicing quantity will be recalculated based on the conversion factor of the involved Invoicing Unit of Measure. The quantity and invoicing quantity are linked.

E.g. 1 PACK = 1200 KG; changing the quantity for PACK will recalculate the quantity of KG

ii. Unit > Invoicing Unit

Any change to the invoicing quantity will not recalculate the quantity in the base unit of measure. Changes to the invoicing unit quantity will thus not be synced with the unit quantity.

Changing the unit quantity will change the invoicing quantity.

E.g. 1 PACK = 1200 KG, when added to the lines, and changing the quantity of the KG (invoicing unit), the PACK will remain 1.

iii. Invoicing Unit > Unit

Any change to the unit quantity will not recalculate the quantity in the invoicing unit of measure. Changes to the unit quantity will thus not be synced with the invoicing unit quantity.

E.g. 1 PACK = 1200KG, when added to the lines, and changing the quantity of PACK (unit of measure), the KG will remain 1200.

3.7.3 Item Card

On the Item Card, configure the Invoicing Unit of Measure that needs to be used when selling or purchasing the item.

1. Navigate to the **Replenishment** section on the **Item Card**.
2. In field **Purchase Invoicing Unit of Measure**, select the invoicing Unit of Measure that needs to be used when adding the item on a purchase document or when invoicing the item on a purchase invoice.
3. Navigate to the **Prices & Sales** section.
4. In the field **Sales Invoicing Unit of Measure**, select the invoicing Unit of measure that needs to be used when adding the item on a sales document or invoicing the item on a sales invoice.

3.7.4 Invoicing UOM on price lists

On the **sales** and **purchase price lists**, there are additions for using the Invoicing Unit of Measure on documents.

When the price is set on the price list line for an item for which the invoicing Unit of Measure is configured, the system will automatically calculate the price in the Invoicing Unit of Measure for the item.

3.7.5 Usage on Requisition and Planning Worksheet

On the Planning and Requisition Worksheet, the Purchase Unit of Measure is noted. This will be calculated when using the action **Calculate Plan** on the pages.

In this section, the Requisition Worksheet will be used to explain the functionality of the added fields.

1. Choose the Search Icon, enter **Requisition Worksheet**, and choose the related link.
2. Following columns are added on the page:
 - a. **Invoicing Quantity**
Specifies how many units are being purchased.
 - b. **Invoicing Unit of Measure Code**
Specifies how each Unit of the item or resource is measured, such as pieces or hours. By default, the value in the **Purchase Invoicing Unit of Measure field** on the Item or Resource Card is inserted.
 - c. **Invoicing Unit Cost**
Specifies the cost for one invoicing unit on the Requisition Line.
3. When executing the function **Calculate Plan...**, for the items, for which the field **Purchase Invoicing Unit of Measure** contains a value, the column **Invoicing Unit of Measure** contains the value of this Purchase Invoice UoM.
4. The **Invoicing Quantity** will be calculated based on the UOM setup, using the Unit Calculator.
 - a. It is possible to open the **Unit Calculator** and recalculate the Quantity in the set up Unit of Measure Codes for the item.
5. After optionally modifying the parameters that have been proposed in the worksheet, choose the action **Carry Out Action Message...**
6. The Purchase orders are created, with the Invoicing information that was displayed on the lines in the worksheet.

3.7.6 Usage on sales and purchase documents

When creating a sales/purchase order/quote for a customer, enter the item that needs to be sold on the lines.

If the conversion is set up, and the **Invoicing Unit of Measure** is different from the Base Unit of Measure of the item, enter the quantity that needs to be sold of the base unit of quantity and the **Invoicing quantity** column will automatically be calculated based on the set conversions in the Item Unit of Measure page.

It is also possible to modify the value in the **Invoicing Quantity** column. When validating this quantity of the **invoicing Unit of measure code**, the quantity in the **Base Unit of Measure** will automatically be converted, depending on the conversion settings. This quantity can be found in the column **Quantity**.

3.7.6.1 Unit Calculator

Depending on the setting in the Item Card in the field **Open Unit Calculator**, the Unit calculator will open when the item no. or variant is validated on the sales/purchase lines. It is also possible to manually open the Unit Calculator in the Lines section of the order by choosing the action **Unit Calculator**, which can be found when choosing **Functions**.

This functionality is mainly used with Invoicing Units of Measures.

Remark: the **Unit of Measure** page can also be accessed by choosing the three dots in the **Invoicing Quantity** column value for the line of the item that needs to be changed.

The **Unit Calculator** opens, in which the inserted quantity for the line is noted and is recalculated in the different available Unit of Measures.

1. **Quantity**

Specifies the quantity that will be noted on the line in the sales document.

This quantity can be edited in order to recalculate the values for the possible different Unit of Measures of the item.

2. **Quantity Rounded**

Displays the rounded quantity. This takes into account the Rounding precision set on the **Item Unit of Measure** of the corresponding item.

3. **Unit of Measure Code**

Displays the Unit of Measure. All specified Item Unit of Measure for the item will be listed in the lines.

4. **Take Over**

Displays what will be noted on the sales line when this line of the Unit Calculator is chosen to add to the sales lines. Displays the rounded quantity that will be inserted in the Quantity field and the Unit of Measure that will be noted in the Unit of Measure Code. Choose the link in this column on the Unit of Measure line and this value will be noted in the sales line as the new Sales Unit of Measure and quantity.

5. **Qty. In X**

Specifies the value of the of the Quantity in the Invoicing Unit of Measure.

6. **Qty. in Y**

Specifies the value of the Quantity in the Base Unit of Measure.

7. Base Unit of Measure

Specifies if the Unit of Measure is set as the base Unit of Measure.

Remark: this cannot be edited and will always indicate the Base Unit of Measure set on the Item Card.

8. Sales Unit of Measure

Specifies if the Unit of Measure is set as the sales unit of Measure.

Check this box next to the Unit of Measure line that needs to be noted on the sales document. After changing this value, and choosing **OK** the sales line will be edited and the quantity of this line, and the Unit of Measure Code will be noted on the sales line.

9. Sales/Purch. Unit of Measure

Specifies if the Unit of Measure is the purchase Unit of Measure.

Remark: this value cannot be changed and will always indicate the Purchasing Unit of Measure set on the Item Card.

10. Invoicing Unit of Measure (Sales/Purchase)

Specifies if the Unit of Measure is the invoicing Unit of Measure for the Sale or Purchase documents.

Remark: this cannot be changed and will always indicate the Sales or Purchasing Invoicing Unit of Measure set on the Item Card.

When the Sales or Purchase Unit of Measure is changed, it is always possible to reset the selection of the Sales/purchase Unit of Measure back to the settings specified on the Item Card.

Choose **OK** to change the information on the line back to this Unit of Measure.

Remark: the quantity will not be resetted.

*On the Report Layout, it is possible to enable the option to print the **Invoicing UOM** for sales and purchase documents.*

3.7.6.2 Example Case

Lamipark is a specialty laminate & wood flooring store, they recently received an order from a local cabinetmaker.

The joiner needs 10.5 square meters of laminate flooring to install at his customer's home.

Lamipark only sells Laminate Liners in full packs, which means a conversion is needed to convert those 10.5 square meters into a quantity of packs.

Lines Manage Line Order Fewer options									
Type	No.	Item Reference No.	Description	Location Code	Bin Code	Quantity (Invoicing)	Unit of Measure Code (Invoicing)	Quantity	Unit of Measure Code
→ Item	ART00063		test laminaat	HOOFD-		10.5	M²		PAK

We enter the item on the sales order. We enter the quantity of square meters required in the field "quantity (invoicing)". When we validate this line it will be automatically converted to the number of packs needed depending on the settings applicable to the item (e.g.: rounding method).

Lines Manage Line Order Fewer options									
Type	No.	Item Reference No.	Description	Location Code	Bin Code	Quantity (Invoicing)	Unit of Measure Code (Invoicing)	Quantity	Unit of Measure Code
→ Item	ART00063		test laminaat	HOOFD-		12.26994	M²	6	PAK

As you can see in the image above, the 10.5 square meters of laminate has been converted to 6 packs of laminate. These 6 packs of laminate equate to 12.26994 square meters.

One can play with these fields to determine the desired quantity (e.g., change quantity to 5 packs of laminate = 10.22495 square meters of laminate).