

# Material Issues

How to report the production goods issues

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## 1. INTRODUCTION

Production goods issues, production goods receipt and time receipt transactions are the transactions that can be reported on a work order. These transactions impact the cost of the work order.

This tutorial explains how to report the production goods issues, demonstrating the different methods Beas offers to report this stock transaction.

## 2. PROCESS INTERACTIONS

The Beas production goods issues function interacts with the following processes:

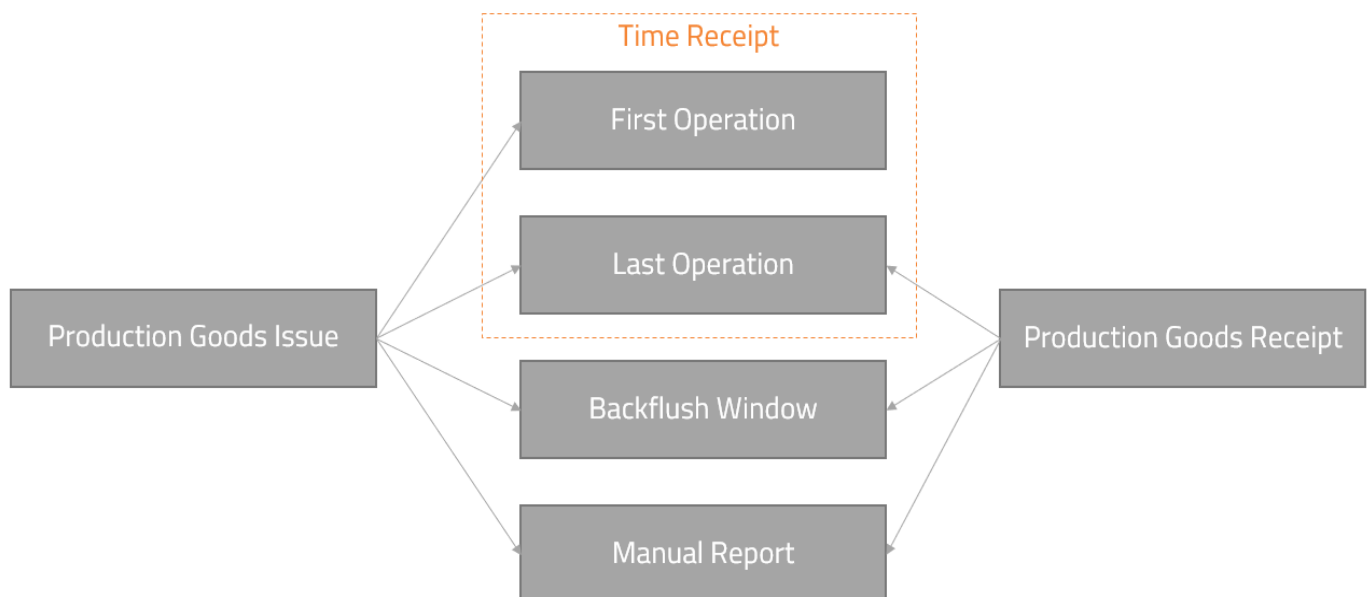
Process	Function
Production	Work order bill of material
Production	Reservation and allocation system
Production	Post-calculation: Actual cost

Availability of some options in the menu and right-click menu depend on the settings in the Configuration Wizard.

## 3. PROCESS

The various transactions, that can be reported on a work order, like the production goods issues, goods receipt and the time receipt, can be reported all together or separately from each other.

Depending on the business process, a user can report the goods issues, goods receipts and time receipt using one window or separate transactions. For example, the production goods receipts can be reported at different times, by different personnel, as shown in the following figure.



- The production goods issues report material consumption from the planned bill of material of the work order.
- The time receipt reports the actual time spent in each operation.

- The production goods receipt reports the actual produced quantities.

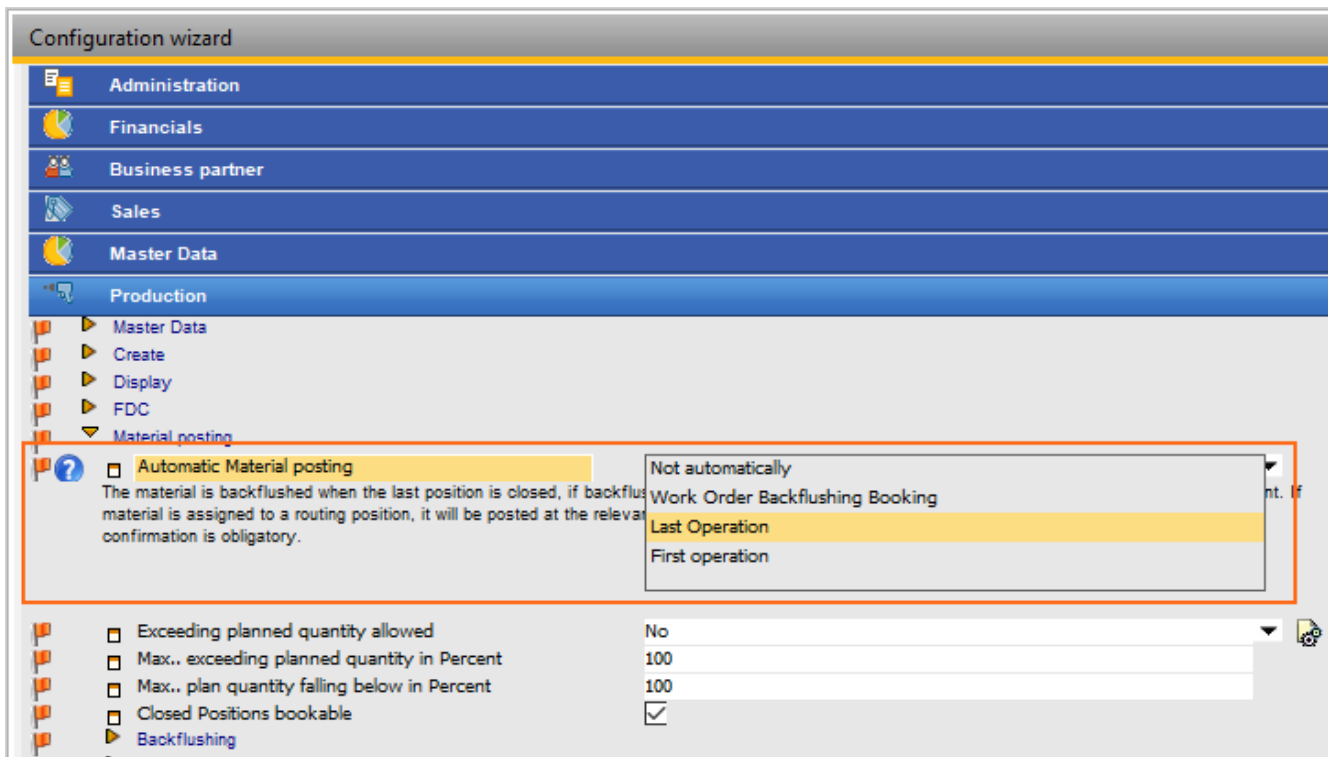
Production goods issue and receipt setting parameters can be modified in Beas general setting. It is possible to report production goods issues and receipts on the time receipt window, on the backflush window or manually. Manual transactions allow issuing individual transactions or reporting more than one material in the same document.

TIP: If production goods issues and production goods receipts are set up to be reported on the time receipt, the user can report all transactions in a single window (the time receipt window).

### 3.1. Material Issue Methods

The general **Automatic material posting** parameter defines how the material will be issued.

To set or change the material issue method parameter go to:  
 Configuration Wizard → Production → Material Posting → Automatic material posting



The options for this parameter are:

- **Not automatically:** The system does not issue the raw material automatically. The user can do the material issue manually.
- **Work Order Backflushing Booking:** Allows material issue automatically, using the backflush screen. This option allows reporting the total produced quantity (considering yield and scrap quantity). The user reports the produced quantity in the backflush window and all raw material that has the backflushing issue method set in its item master data is automatically issued, taking into consideration the related quantity in the bill of material (planned material quantity). Time receipt is reported separately from material issues.

- **Last operation:** The goods issues is on the time receipt window. Automatic issue happens during the time receipt reporting of the last operation. Applies only to materials that have issues method set to backflushing in their item master data.

Materials issue takes place when the last operation has *Clock Mandatory* activated. The system understands the last operation is the last operation with the *Clock Mandatory* activated. *Clock Mandatory* allows classification of the operation as a sequence. A list of operation without sequence means that the operator can do any of the operations any time and the system would not be able to determine what the last operation was.

operation sequence 1162/10/120

Routing

Operation sequence	60
Type	Assembly
Operation	3
Resource	1201
Active	<input checked="" type="checkbox"/>
Clock Mandatory?	<input checked="" type="checkbox"/> Closed

- **First operation:** Automatic goods issue happens during the time receipt reporting of the first operation. It only applies to materials with the backflushing issue method set in their item master data. Material is issued when the first operation is reported. This is separate from the goods receipt, which can happen at the last operation or manually, during other processes.

The automatic raw material issue takes into consideration the issue method selected in the item master data. The item master data setting overrides the **Automatic material posting** setting of the configuration wizard for the specific item.

Item master data for pc\_crossbrace

Master Data | Bill of Materials | Routing | Configurator | Quality control

Item number: pc\_crossbrace | I-Version: [ ] | Warehouse item:   
 Description: Cross brace | Sales Item:   
 Google Search: [ ] | Purchased part:   
 Item type: Item | Fixed assets:   
 Item group: Items | Barcode: [ ]  
 UoM Group: Manual

General | Purchasing data | Sales data | Inventory data | Planning data | Calculation | Properties | Remarks | Attach

VAT binding:   
 Match code: [ ] | **Manufacturing data**  
 DIN: [ ] | Procurement Method: Make  
 Drawing no.: [ ] | Breakdown: Storage related  
 Manufacturer: - No Manufacturer - | Administration: Default  
 Additional identifier: [ ] | Unit bom: Pcs  
 Raw material: [ ] | Lot size / production: 1.00  
 Employee: [ ] | Issue method: Backflushing  
 Material Group: HM | Scrap (%): [ ]  
 Cost Center: [ ] | Scrap Table: [ ]  
 Item Administrate by: None | Phantom Item:

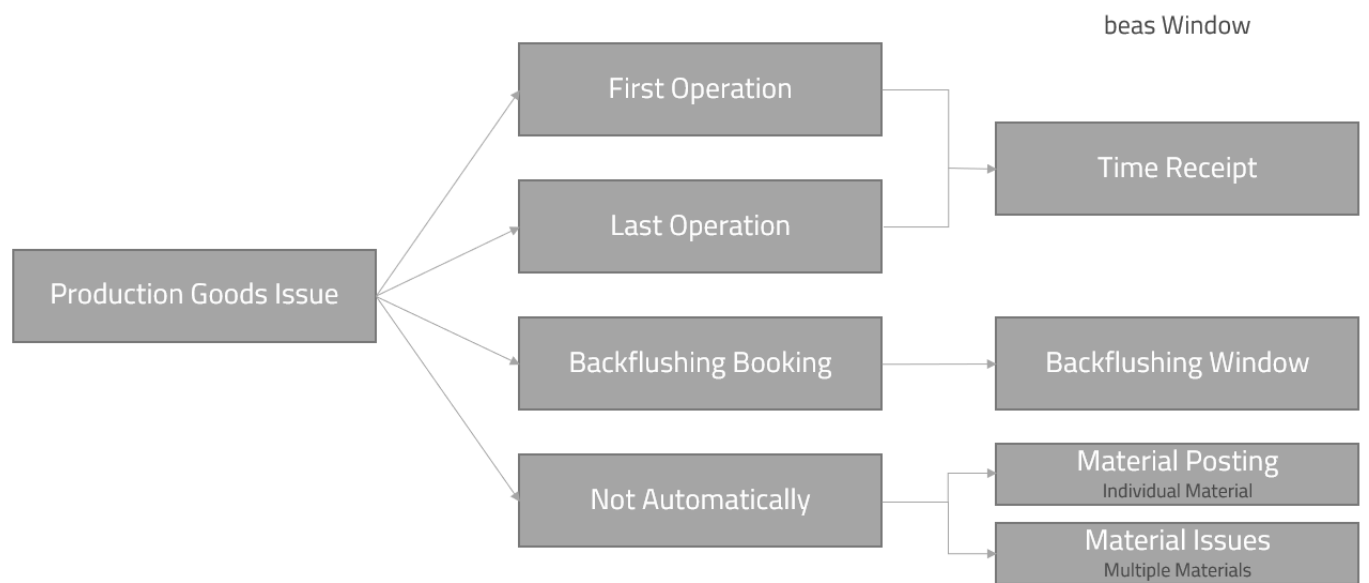
The **Backflushing** option allows the item to be issued automatically.

The **Manually** option means that the issue is always manual, regardless of the production issue method setting. Even if the production issue method is set to automatic (backflush screen, last operation or first operation), the material issue needs to be manual for the item.

The issue method setting of a raw material can be identified easily in structure of the bill of material, because the letter **A** appears next to the raw material icon if the issue method is **Backflushing**.

[-] ...		Folder	FG01	
		Raw Material	<b>A</b> 10	RM01
		Raw Material	20	RM02
	[+] ...	Folder	<b>A</b> 30	FG02
		Component	10	CT001

In the previous figure, the RM01 issue method is set to **Backflushing** and RM02 issue method is set to **Manually**. If we report issuing automatically, only RM01 and FG01 will be considered for the automatic issue.



When the system issues a raw material automatically, it uses the warehouse defined at the bill of materials. If the goods issue is not set to automatic, the suggested warehouse is the same.

Production Bill of Materials Item 1162 / 10 / 20

Position: 20  
 Item: F79344  
 Version: [dropdown]  
 Description: O-Ring, M6 2367  
 Drawing number: [text box]

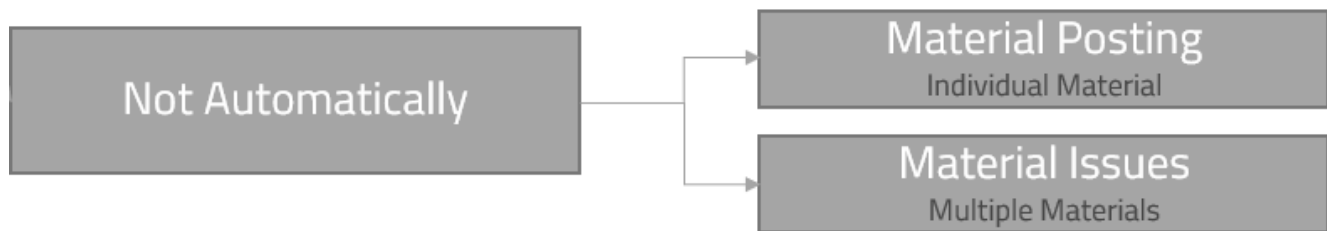
General | Extended | Cost

Quantity	1.00	Pcs	Per	3.0000	Pcs
Fixed quantity surcharge	0.00	Pcs	Total		Pcs
Calculated Scrap	0.00	Pcs	Inventory		31.33 Pcs
Routing-position	[dropdown]		Warehouse	2000-c-b	[dropdown]
Rounding type	No rounding	[dropdown]	Rounding dec.	0	
L	0.000		udf field 1		

### 3.2. Material Issue Method - Not automatically

With this option, the user can report material issue, time report and goods receipt separately. For example, personnel working on the machine submits a time report, another person reports the material issue and another person issues the goods receipts at different times during the production process.

There are two ways to manually report a material issue:



- Individually, using the issue option on the material
- Multiple raw materials at the same time, using the *Material issues* option on the work order

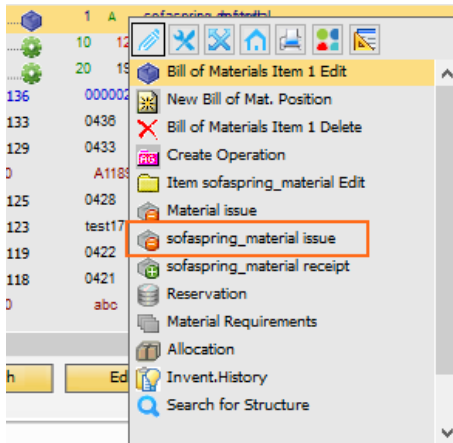
To see these options, make sure they are enabled in the system. See the Material Issue Window Settings on the Work Order section.

Manual reporting can also be used when other methods were selected in the material issue method (backflushing, last operation or first operation) and the issue method in the item master data of the raw material is set to **Manually**. This method can also be used to report additional, non-planned material consumption.

#### 3.2.1. Using the Individual Material Window

To access the individual material issue window:

- Right-click on the material line and click the <itemcode> issue option. The window opens for the selected material and work order.



- Select Modules→Inventory → Inventory Transactions → Issue manually (single event) from the menu.

This option is also used for manual postings or adjustments not related to a work order and for this reason the transaction type must be identified.

Types of transactions:

- **Production:** The goods issues is assigned to a work order. When this option is selected, additional fields appear on the form.
- **Correction:** Used to report adjustment of remaining stock (evaporation, scrap, and so on). This option uses the accounts set in Beas general parameters.
- **Manually:** Used to report a manual good issue. This option uses the accounts set in Beas general parameters. These accounts can be different from the correction option.
- **Inventory:** Uses the same accounts as the Manually option, but the *inventory adjustment* posting type is entered in the comment field in the goods issues document.

For this tutorial we are dealing the **Production** type transaction only.



The screenshot shows the 'issue manually' SAP transaction form. The 'Type' field is set to 'Production'. The 'Work Order' field is highlighted with a red box and contains a value. Other fields include 'Item', 'I-Version', 'Description', 'Date' (12.12.18), 'Project', 'Inventory' (0.000), 'Cost Center', 'Entry reason', and 'Pricing'. At the bottom are 'Cancel' and 'F2 Enter' buttons.

For the production type transaction, provide the work order number, position and material position manually. As a shortcut, instead of manually providing values for all three fields, the following bar codes can be scanned:

- The work order position bar code: work order and position are automatically filled
- BOM bar code: work order number, the work order position and the material position are automatically filled

For an example, see Example Manual Issue Options to Provide a Work Order Number.

When the material position is selected in the drop-down menu, the fields are filled with the information. It is mandatory to add a quantity; an entry reason is optional. For the detailed description of all fields, see the Manual Issue Field Guide.

issue manually

Type	Production		
Work Order	1841	10	20
Item	RM02	Date	12/28/17
I-Version			
Description	Raw Material - Unit bom Kg - gr		
Warehouse	01		
		Project	
Quantity	0,000	KG	
		Inventory	38,040
		L*W*D	0,000 0,000 0,000
		Cost Center	
Entry reason			
Pricing	Average price		

<

Cancel F2 Enter

Click the *Enter* button to create the SAP goods issue document or *Cancel* to close the window without creating the document.

### **Raw material with unit BOM**

If the raw material to be issued has a unit BOM that is different than the inventory unit, an additional field is available to enter the quantity according to the unit BOM. The user can provide the quantity in any unit, and the other unit is calculated according to the conversion formula. For an example, see Example Manual Issue of Item with Unit BOM.

### **Batch or serial number item**

If the item is managed by batch or serial number, and additional drop-down menu shows the available batches or serial numbers.

Drop-down menu showing the available serial numbers:

The screenshot shows the 'issue manually' window with the following fields and values:

- Type: Production
- Work Order: 1845
- Item: RM007
- Date: 12/28/17
- Description: Raw Material - Serial
- Warehouse: 01
- Serial Number: 0
- Quantity: 70
- Entry reason: 70
- Pricing: 70

A dropdown menu is open, showing a list of serial numbers from SER\_169 to SER\_180. The 'SER\_169' option is highlighted.

### Reporting a production goods issue of a non-planned material

To report any additional consumptions of a material that was not planned for the work order:

1. Open the *Issue manually* window from Modules → Inventory → Inventory Transactions → Issue manually (single event), choose *Production* type and select the work order and position.
2. At the material position, select the *New* option.

The screenshot shows the 'issue manually' window with the following fields and values:

- Type: Production
- Work Order: 1133
- Item: F79344
- Date: 13.12.18
- Description: O-Ring, M6 2367
- Warehouse: 2000-c-b
- Bin Location: (empty)
- Quantity: (empty)
- Inventory: 31.33
- Cost Center: (empty)

A table of material positions is displayed:

Position	Item	Version	Description	Drawing number
20	F79344		O-Ring, M6 2367	
	781-A	2	released activ version	
	new			

The 'new' option is highlighted in a red box.

3. Select the Item code and I-version if applicable.
4. Provide the rest of the values in the fields.

The screenshot shows the 'issue manually' window with the following fields and values:

- Type: Production
- Work Order: 1133
- Item: F79344
- Date: 13.12.18
- Description: O-Ring, M6 2367
- Warehouse: 2000-c-b
- Bin Location: (empty)
- Quantity: (empty)
- Inventory: 31.33
- Cost Center: (empty)

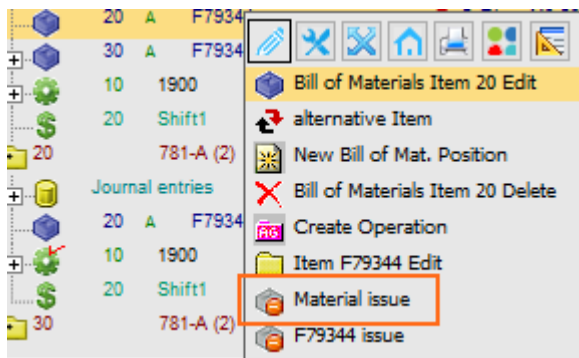
5. Click the *Enter* button to create the production goods issues.

A new BOM position is created with a planned quantity, and the goods issue is created for the new position.

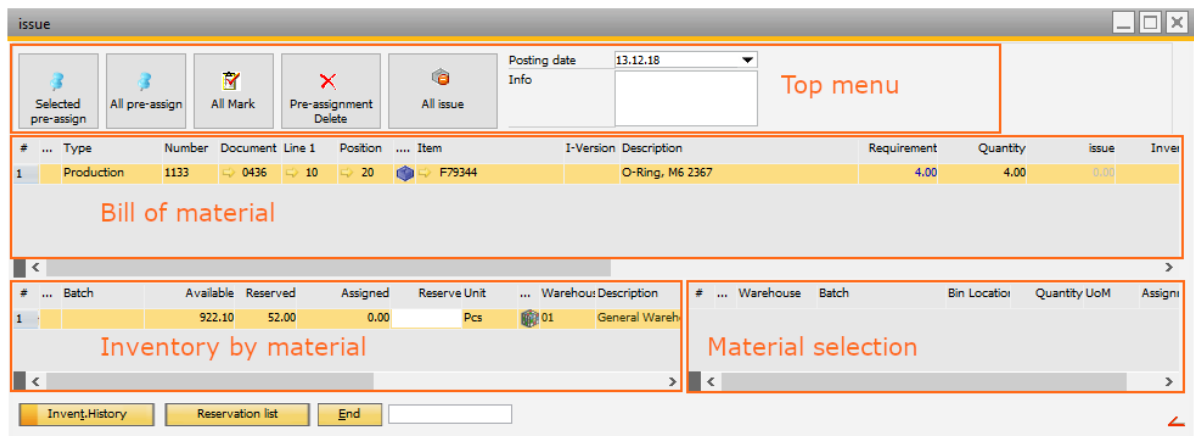
1133	0436	05.07.17		
10	781-A (2)	released activ version		
Journal entries				
receipt 1900				
20	A F79344		O-Ring, M6 2367	
30	A F79344		O-Ring, M6 2367	

### 3.2.2. Using the Material Issue Window

1. Right-click over the work order position and choose the *Material issue* option to access the material issue window.



The material issue window displays all raw materials that are a part of the work order BOM. For a detailed description of all fields, see the Material Issue Field Guide.



2. Select the required quantity manually or use the *Pre-assign* button.
3. Click the *All issue* button to create the goods issue document.

The visible warehouses in the material issues window depend on a parameter setting at the extended information on the warehouse master data in Inventory → Warehouse Management → Master Data.

To make a warehouse visible for material issues, select the warehouse, then click the *Production outflow* checkbox. Only warehouses with Production outflow are be visible.

Warehouse 01	
Master Data	
Warehouse	01
Description	General Warehouse1
Type	Default
Supplier	
Default QC Warehouse	
Reservation, Allocation	<input checked="" type="checkbox"/>
Production outflow	<input checked="" type="checkbox"/>
Default Production Inflow	<input type="checkbox"/>
Default Variant	A
Picture	bmp\mmaterialbedarfsplanung.png
Color	12335
Bin location management	<input type="checkbox"/>
Warehouse Coordinates	
Length	25.000 M
Width	15.000 M
Color	12189695

### 3.3. Material Issue for Batches or Serial Numbers

The issue method of any item managed by batch or serial number is manual in SAP.

When the backflushing or time receipt (first operation or last operation) method is set in Beas, it is possible to enable the system to automatically request batches or serial number during the process.

To activate the option for batches, go to Configuration wizard → Production → Material posting → Backflushing → Also post batches

To activate the option for serial numbers, go to Configuration wizard → Production → Material posting → Backflushing → Also post serial numbers

The possible values are the same for both batches and serial numbers:

**Yes:** Batches or serial numbers are pre-allocated and backflushed

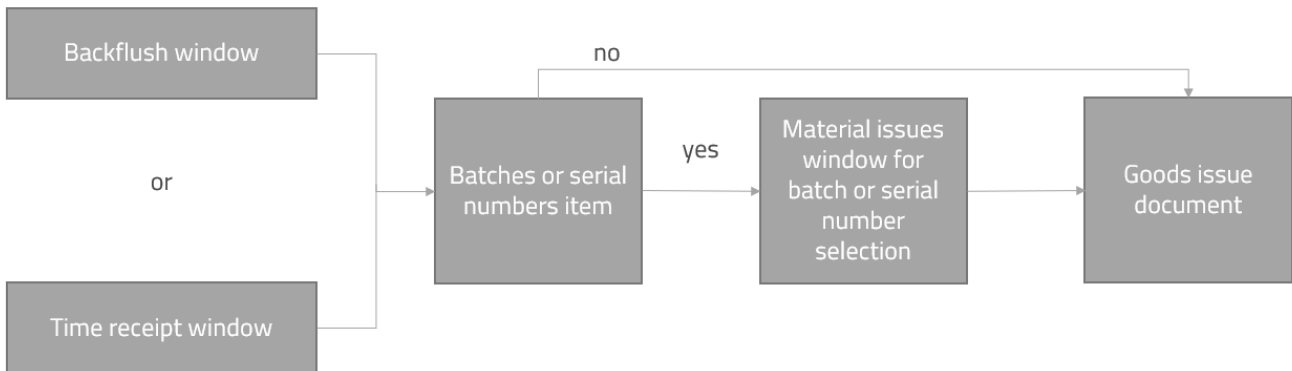
**Manually:** Select batches or serial number manually for backflushing

**No:** Batches or serial numbers are not made available for backflushing, only manual issue is possible

In the Configuration Wizard → Production → Material posting → Backflushing → Automatic batch issue by option, the next issued batch can be defined by batch number, date or certain attributes. This option helps, if there are previous reservation and we do not want to select the batches again. The system considers the number reserved a priority.

<input type="checkbox"/> Also post batches	No
<input checked="" type="checkbox"/> Automatic batch issue by	Batch number
<input type="checkbox"/> Issue blocked Batches	Date of Permission
<input type="checkbox"/> Batches Balance issue	Manufacturing Date
<input type="checkbox"/> Also post serial numbers	Expir. date
<input type="checkbox"/> Posting from allocation warehouse	Batch attribute 2
<input type="checkbox"/> Material posting with Scanner?	Batch attribute 1
<input type="checkbox"/> Required quantity 0 display	

When the *Also post batches* or *Also post serial numbers* option is set to *Yes*, a material issue screen is displayed to allow batch or serial number selection.



The material issue window has the same behavior as the manual material issue but, in this case, only the quantity coming from the time receipt or backflush screen is issued, and materials with the *automatically* issue method are already selected.

#	Type	Number	Document	Line 1	Position	Item	I-Version	Description	Requirement
1	Production	1848	AB_02	10	10	RM01		Raw Material	0,00
2	Production	1848	AB_02	10	20	RM006		Raw Material - Batch	1,00

#	Batch	Available	Reserved	Assigned	Reserve Unit	Wareho
1	BN-20140	5,00	0,00	0,00	Pcs	B
2	B_002	295,00	0,00	0,00	Pcs	01
3	B_003	102,60	0,00	0,00	Pcs	01
4	B_005	141,80	0,00	0,00	Pcs	01
5	L03_test	1,00	0,00	0,00	Pcs	01
6	L1	1,00	0,00	0,00	Pcs	01

A quantity can be selected from a warehouse inventory and the batch or serial number by double-clicking on the line or entering the quantity on the *Reserve* field. Double-clicking selects the full requirement depending on the available quantity at the warehouse.

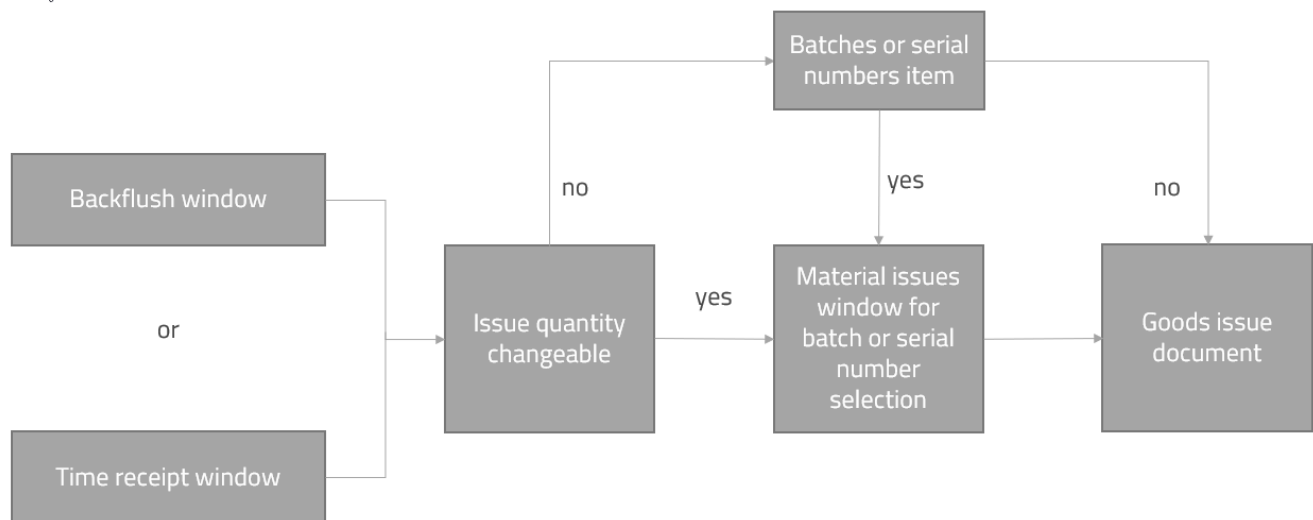
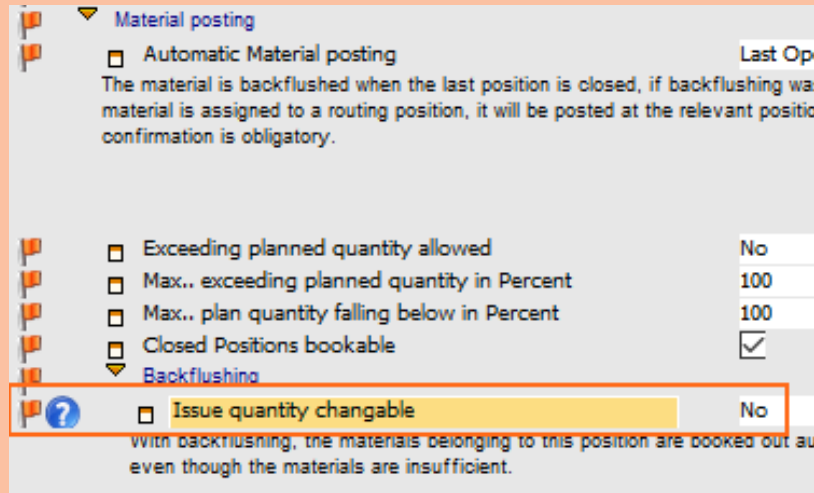
To continues with the goods issues process, click on the *Issue and Go On* button.

### 3.4. Calling Quantity Confirmation During Automatic Issue

When the backflushing or time receipt (first operation or last operation) method is set in Beas, it is possible to set an option to always show the material issue screen. Using this option quantities can be added on top of automatically selected quantities or manually issued items.

To activate the option, go to Configuration wizard → Production → Material posting → Backflushing → Issue quantity changeable

Changing the option to *Yes* displays the *Material issue* window before creating the goods issues document.



The material issue window has the same behavior as the manual material issue but, in this case, only the quantity coming from the time receipt or backflush screen is issued and materials with the automatically issue method are already selected.

The screenshot shows the SAP 'issue' window. At the top, there are buttons for 'Selected pre-assign', 'All pre-assign', 'All Mark', 'Pre-assignment Delete', and 'Issue and Go On'. Below these is a table with columns: #, Type, Number, Document Line 1, Position, Item, I-Version, Description, and Requirement. Row 2 is highlighted in red, showing a requirement for 'Raw Material - Batch' with a quantity of 1,00.

#	Type	Number	Document Line 1	Position	Item	I-Version	Description	Requirement
1	Production	1848	AB_02	10	RM01		Raw Material	0,00
2	Production	1848	AB_02	20	RM006		Raw Material - Batch	1,00

#	Batch	Available	Reserved	Assigned	Reserve Unit	Wareho
1	BN-201401	5,00	0,00	0,00	Pcs	B
2	B_002	295,00	0,00	0,00	Pcs	01
3	B_003	102,60	0,00	0,00	Pcs	01
4	B_005	141,80	0,00	0,00	Pcs	01
5	L03_test	1,00	0,00	0,00	Pcs	01
6	L1	1,00	0,00	0,00	Pcs	01

A quantity can be selected from a warehouse inventory and the batch or serial number can be chosen by double-clicking on the line or entering the quantity on the *Reserve* field. Double-clicking on the line selects the full requirement depending on the available quantity at the warehouse.

To continue with the goods issues process, click on the *Issue and Go On* button.

### 3.5. Validations During the Goods Issued Process

All validation options for goods issue are available in Configuration Wizard → Production → Material posting

The screenshot shows the 'Material posting' configuration window. It contains several options with checkboxes and dropdown menus:

- Automatic Material posting (Last Operation)
- Exceeding planned quantity allowed (No)
- Max.. exceeding planned quantity in Percent (100)
- Max.. plan quantity falling below in Percent (100)
- Closed Positions bookable (checked)
- Backflushing**
  - Issue quantity changable (No)
- Accept Function 'Adjust and Enter' (checked)
- Behaviour at discrepancy of quantity (Query)
- Cut-Off Quantity consider (No)
- Scrap consider (not at backflushing issue)
- Scrap at reporting negative BOM amount (No)
- Also post batches (Yes)
- Automatic batch issue by (Expir. date)
- Issue blocked Batches (blocked Batches not selectable)
- Batches Balance issue (always)
- Also post serial numbers (Yes)
- Posting from allocation warehouse
- Material posting with Scanner? (checked)
- Required quantity 0 display (checked)
- Reservation, material issue: extended Display (checked)



Validation options:

- **Exceeding planned quantity allowed:** Determines whether different value than the planned quantity may be issued. When this option is set to *yes* and additional field for maximum percentage is displayed.

Value	Description
Yes (default)	Allowed, without check.
Yes, with protocol (I)	Allowed. Errors are saved in the protocol table and the work order is marked red in that case.
No	Not allowed. Issue process is cancelled.
Query	Show a security question before continuing.
Query with protocol	Show a security question before continuing. If material is issued, a protocol entry is created for the work order and it is marked as red.

Planned quantity is provided in work order +/- percentage based on the following setting:

- *Maximum exceeding of planned quantity in percent:* Enter percentage by which planned quantity may be exceeded.  
Value range: 0 - 99%. No check in case 100% is set.  
Option is only visible, if *Exceeding of planned quantity allowed* was not set to *Yes*.
- *Maximum shortfall of planned quantity in percent:* Enter percentage by which planned quantity may fall short. Option is only visible, if *Exceeding of planned quantity allowed* was not set to *Yes*.
- **Closed positions bookable:** If this option is enabled, you can issue closed material positions. Only affects the *Material issue manually* screen for production type if the position was selected by direct input or by using a barcode, and the user is a superuser or has the respective access rights.
- **Behavior at discrepancy of quantity:** Defines behavior in case material backflushing has a different quantity than planned. The option is visible regardless of the *quantity changeable* option settings, since this window opens for more operations, for example, when batches or serial numbers cannot be withdrawn automatically.

Options:

Query	Display a prompt whether backflushing is to be performed with the indicated quantity.
Allow	Book immediately with the available quantity, no prompt is displayed.
Block	Selected quantity and default quantity must match, otherwise the procedure cannot be completed. The goods issue is cancelled.

- **Accept Function 'Adjust and Enter':** At shortfall of stock allows posting with adjusted quantity. This setting is only visible if *Issue quantity changeable* is set to *No*.
- **Issue blocked batches:** Determines the behavior of blocked batches during backflushing.
  - *Blocked batches not selectable:* Blocked batches are not available to select.
  - *Manually:* Blocked batches can be selected after a warning message.
  - *Allowed:* Blocked batches can be selected without query.
- **Material posting with scanner:** The active field is always the entry field in the lowest line. This can be used to register by scanner. There are two options:
  - *Active:* A matching batch or serial number is searched. If an entry is found, it is used, and the required quantity is accepted. If no entry is found, the a no entry found error message is issued. If the entry is blocked, (batch status, blocked bin location) the entry is not accepted, and a message is issued.
  - *Inactive:* Beas searches for the following entries:

- *Batch number*: field is selected, the cursor is set to quantity field
- *Serial number*: quantity is accepted immediately
- *Item*: entry selected, the cursor is set to quantity field

If no matching entry is found and the entry is numeric, the current entry is accepted, including the quantity.

Error messages are not displayed in any of these cases.



- **Required quantity to display**: Enables displaying BOM items with zero or less requirement. Setting affects *Material issues* window and *Reservation* window, *Allocation* window and *External Provision* window, as well as the material requirement list.
- **Reservation, material issue: extended Display**: Determines whether to show information from inventory history. If active, the extended view is used. This extended view is computationally expensive and large date calculations take a long time. By default, this option is disabled.

### 3.6. Production Goods Issues Parameter Depending on Work Order Type

When the material posting method is not set to backflushing, it is possible determine the material goods issues depending on the production type. This way the operator can have one work order where the goods issues is created manually, and another work order where the goods issues is created automatically, for example at the last operation.

The rest of the options are available except the backflushing.

When the backflushing method is selected, this parameter is not visible at production type.

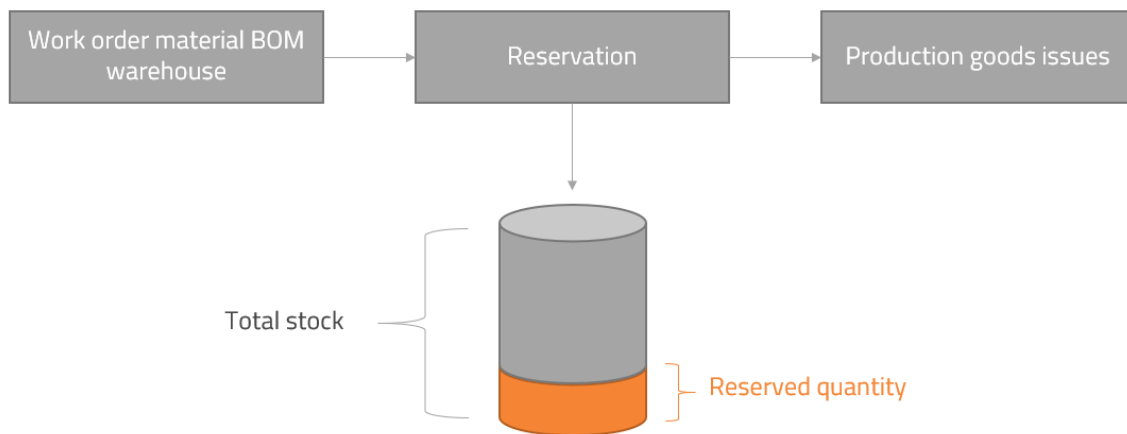
Production types		Production type Stock	
#	Type	Type	Stock
1	Estimation	Description	Stock Oriented
2	Gemeinkoster	Overhead order	<input type="checkbox"/> Collective receipt
3	Maint	Planned order	<input type="checkbox"/> Manual Price
4	Project	Project order	<input type="checkbox"/> Manual Batches
5	Repair	Schedule automatically	<input checked="" type="checkbox"/>
6	Sales Order2	Block	<input type="checkbox"/>
7	SalesOrder	WIP - do not post differences	<input type="checkbox"/>
8	SINWIP	Invisible	<input type="checkbox"/>
9	Stock	Release not check	<input checked="" type="checkbox"/>
		This setting changeable in production order	<input type="checkbox"/>
		Graphical symbol	bmp\project_yellow.png 
		Color	0 
		Always breakdown subassemblies	<input type="checkbox"/>
		Valuation Assembly	Automatically
		Automatic Material posting	<input type="text" value="Automatically"/> <ul style="list-style-type: none"> <li>Automatically</li> <li>Automatically</li> <li>Not automatically</li> <li>Last Operation</li> <li>First operation</li> </ul>

### 3.7. Production Goods Issues with Reservations or Allocations

Reservation and allocation are processes that can complement the production goods issues. The production goods issues take quantities from the warehouse defined at the work order BOM, however these quantities can be reserved in advance to be used for the work order. If items are managed by batch or serial number, these

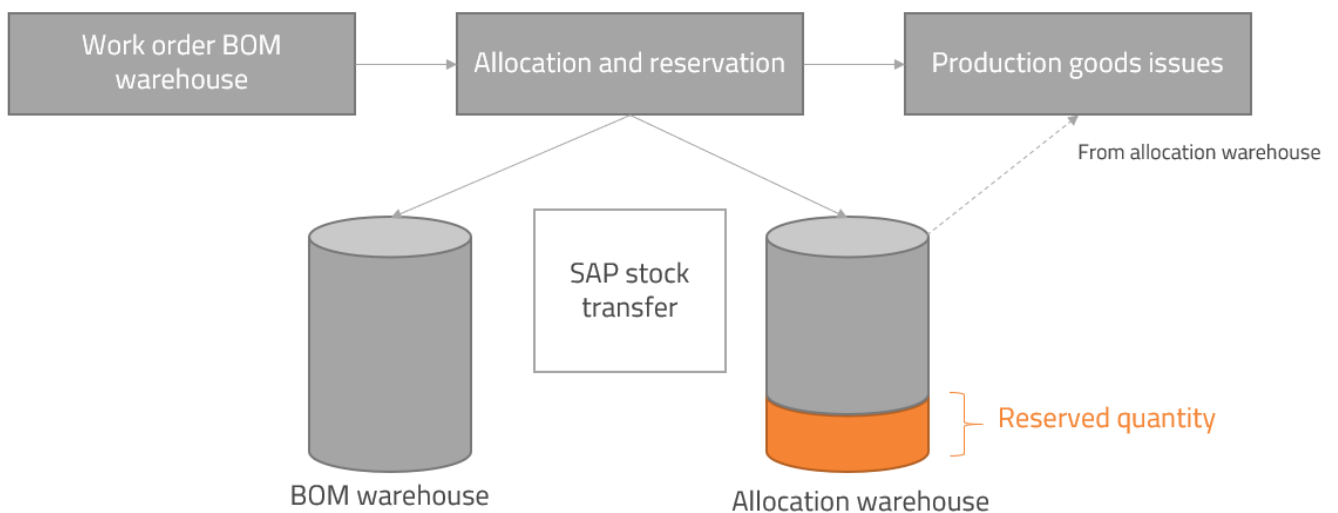
numbers can also be selected for the reservation. During the goods issues process, reserved quantities are prioritized at the selection.

### 3.7.1. Reservation



### 3.7.2. Allocation

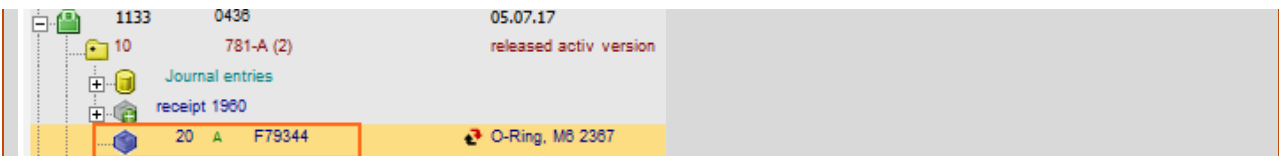
In the case of the allocation an additional step is involved, since the material is transferred from the BOM warehouse to the allocation warehouse. At the time of the goods issue, the system uses the quantity transferred to the allocation warehouse as a priority.



## 4. EXAMPLES

### 4.1. Example Manual Issue Options to Provide a Work Order Number

Example:



If you manually enter the work order number 1133 , then the position 10 and material position 20 must be entered manually.

If you scan the work order position barcode 001133010, then the work order and work order position are filled in and only the material position needs to be entered manually.

Work Order Pos. 0436 (1133 / 10)

Assembly	Bill of Materials	Routing	Calculation
Position	10	Barcode	001133010
Item	781-A		
I-Version	2		
Description	released activ version		
Variant			
Configuration			
Qty. to produce	10.00	Pcs	

manual receipt

Type	Production		
Work Order	1133	10	0
Item	781-A	Date	12.12.18
I-Version	2		
Description	Assembly-1		
Warehouse	BW		
Bin Location	001004		
Quantity		Pcs	Inventory 194.50
		Pcs	
Class		Cost Center	

If you scan the BOM barcode 1004605, then the work order, work order position and material position is also automatically detected.

Production Bill of Materials Item 1133 / 10 / 20

Position: 20  
 Item: F79344  
 Description: O-Ring, M6 2367  
 Drawing number:

General | Extended | Cost

Match code:   
 Material Group: HM  
 Raw material:   
 Density: 0  
 Project:   
 Task: 0  
 Delivery Date:   
 Barcode: 1002248

---

manual receipt

Type: Production  
 Work Order: 1133 / 10 / 20  
 Item: F79344  
 I-Version:   
 Description: O-Ring, M6 2367  
 Warehouse: 2000-c-b  
 Bin Location:   
 Date: 12.12.18  
 Project:   
 Quantity: Pcs  
 Inventory: 31.33

#### 4.2. Example Manual Issue of Item with Unit BOM

Example:

RM02 inventory unit is in KG, but the Unit BOM is in gr. A conversion formula of KG to gr is created.

Oracle VM VirtualBox

View | Data | Go To | Modules | Tools | Window | Help

Item master data for RM02

Master Data | Bill of Materials | Routing | Configurator | Quality control | Datas

Item number: RM02  
 Description: Raw Material - Unit bom Kg - gr  
 Desc. in foreign lang.:   
 Item type: Item  
 Item group: Items  
 UoM Group: Manual  
 I-Version:   
 Warehouse item:   
 Sales item:   
 Purchased part:   
 Fixed assets:   
 Barcode:   
 Rack de ubic:   
 VAT binding:   
 Match code: Training  
 DIN:   
 Drawing no.:   
 Manufacturer: - No Manufacturer -  
 Additional identifier:   
 Raw material:   
 Manufacturing data  
 Mode of procurement: Buy  
 Breakdown: None Breakdown  
 Administration: Default  
 Unit bom: gr  
 Lot size / production: 1.000

At the production goods issues, the system displays the quantity and conversion unit.

issue manually

Type	Production		
Work Order	1841	10	20
Item	RM02	Date	12/28/17
I-Version			
Description	Raw Material - Unit bom Kg - gr		
Warehouse	01		
Quantity	1,000	KG	
Conv. Unit	1,000.00	gr	
Inventory	38,040		
L*W*D	0,000	0,000	0,000
Cost Center			
Entry reason			

## 5. FIELD GUIDE

### 5.1. Manual Issue Field Guide

The following fields are available at the manual goods issues screen:

- **Itemcode:** Code of the item.
- **Warehouse:** Code of the warehouse where the item is issued.
- **Date:** Posting date of the document. The default value is the today variable.
- **Quantity:** The quantity issued. The inventory label shows the current inventory at the selected warehouse, therefore the quantity cannot be more than the inventory quantity.
- **Project:** SAP Project code. The default value comes from the project linked to the work order. If continued stock is active in the database, the project code is included in the journal entry.
- **L\*W\*D (Length, width, and diameter):** The dimensions of the raw material, that can be used for a custom formula to calculate the quantity.
- **Cost center:** Cost center allocated to the transaction. The value is determined automatically depending on a Beas general parameter and this value appears on the journal entry for the goods issue.

To set the cost center:

Configuration Wizard → Production → Material posting → Account determination → cost center determined by:

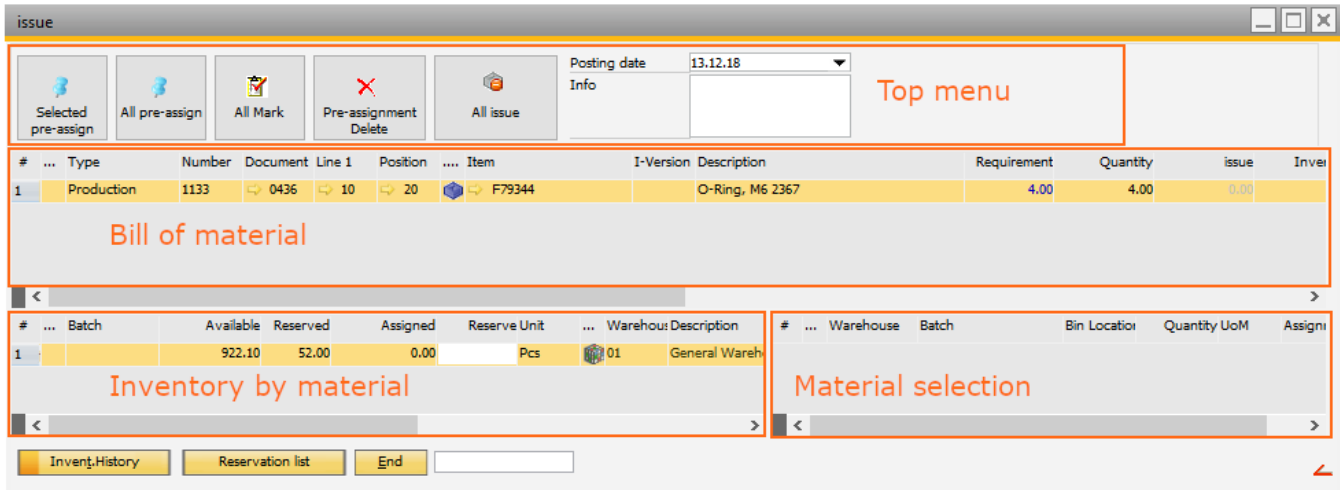
**No:** The cost center is empty by default.

**Assembly:** Use the cost center defined in the master data of the produced item.

**Material:** Use the cost center defined in the master data of the raw material.

- **Entry reason:** Free text to add any additional information.
- **Pricing:** Shows the method determining the price.

## 5.2. Material Issue Field Guide







The window has four areas:

### 1. Top menu: Buttons to interact with the selection:

- **Selected pre-assign:** Quantity of all entries marked in the bill of material area are selected automatically. This is only valid for raw material where the issue method is set to *Backflush*. The following priorities are applied for quantity selection:
  - Inventory previously reserved for this order line
  - Inventory at the allocation warehouse
  - Default warehouse as per BOM, standard warehouse of the item, or default warehouse for backflushing as set in the *Configuration Wizard > Backflushing > Posting from allocation warehouse*
- **All pre-assign:** Quantity of all entries in the bill of material area are selected automatically.
- **All Mark:** Selects all lines of the bill of material area.
- **Pre-assignment delete:** Delete all assigned quantities from the material selection area for the items selected in the bill of material area.
- **All issue:** Create the goods issue document with all the assigned quantities in the material selection area for each item on the bill of material area.
- **Posting date:** Posting date of the goods issue document.
- **Info:** Free text for any additional information for the goods issue document.

### 2. Bill of material: List of materials that are required on the selected work order. In this area information is available on the required quantity and stock information. The displayed columns can be customized. Some of the column descriptions are as follows:

Column	Description
...	Status of the row indicated by an icon  These icons are the same in the reservation screen, allocation screen, provision screen and material issue screen.
Icon	Description

	 A barrel is displayed when material is selected.  Grey: less than the planned quantity of the material is reserved  Green: required quantity reserved  Red barrel overflow: more than the required quantity is reserved
Number	Work order number
Document	Document number
Line	Work order position
Item	Item number
I-Version	Item version
Description	Item description (from BOM or Sales Order)
Allocation Warehouse	Stock on allocation warehouse
Requirement	Planned quantity remaining = Planned assembly quantity* BOM requirement - already posted material + canceled material  The column is color coded: <b>red</b> : required amount not available <b>blue</b> : required amount available <b>green</b> : no requirement or enough goods selected (value = 0)
Quantity	Required total quantity not considering the reserved quantity.
Reserved	Displays the currently selected quantity to be issued.  The column is color coded: <b>gray</b> : required amount selected <b>blue</b> : part of the required amount selected <b>green</b> : total quantity selected <b>red</b> : more than the required quantity selected
Order related purchased	Total quantity of open purchase orders and purchase requests for this row in warehouse units.
Alloc. warehouse	Stock on allocation warehouse.
Inventory	Current free stock.  Stock of pre-allocated warehouse. In sales order or Production - BOM position a warehouse is stored. The stock of this warehouse is displayed.
Total Inventory	Available total quantity. The value depends on the extended display settings. If the Configuration wizard → production → Material posting → Backflushing → Reservation, material issue: extended Display option is enabled, then the stock of all non-blocked warehouses is displayed. For batch related items only released batches are considered.



	If the option is disabled, then the stock of all non-blocked warehouses is displayed.
Goods receipt from PO	Total quantity of open purchase orders in warehouse units.
Release	Check mark displayed, if the check mark <i>approved</i> was set in the sales order window logistics tab.
Warehouse, primary warehouse	Warehouse that is stored in the pegging. Production BOM position: always the warehouse which is entered in the BOM
Picklist Release	Check mark displayed, if the <i>print picking sheet</i> check mark is set in the sales order window logistics.
Blocked stock	Stock of blocked warehouse.
Res. Total	Total reservation (all orders, customer and work orders).
Purchase inflow	Planned inflow from purchase.
Sales order	Requirement of sales orders.
Res. sales order	Reserved quantity of all sales orders.

3. **Inventory list by material:** Inventory information by warehouse depending on the selected line in the bill of material area. The quantity to be issued can be manually selected here. In case of batch or serial items, the batch or serial number information is displayed by warehouse.

A quantity from a warehouse inventory can be selected by double-clicking on the line or entering the quantity in the *Reserve* field. The selected quantity is then displayed in the material selection area. Double-clicking selects the full requirement depending on the available quantity at the warehouse.

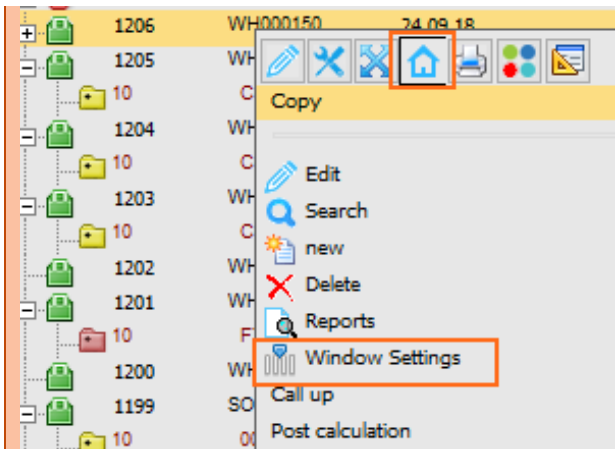
#	...	Batch	Available	Reserved	Assigned	Reserve Unit	...	Warehouse	#	...	Warehouse
1			37,040	0,000	0,000	<input type="text"/> KG		01	1	X	01

4. **Material selection:** Selected quantities are collected in this area and are displayed according to the selection in the bill of material area.

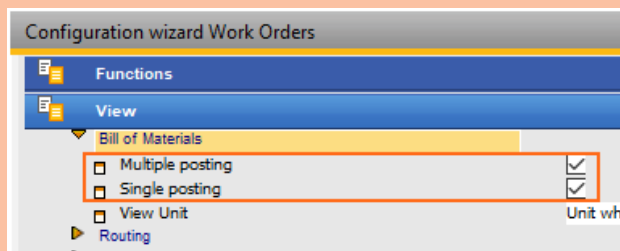
## 6. CONFIGURATION WIZARD

### 6.1. Material Issue Window Settings on the Work Order

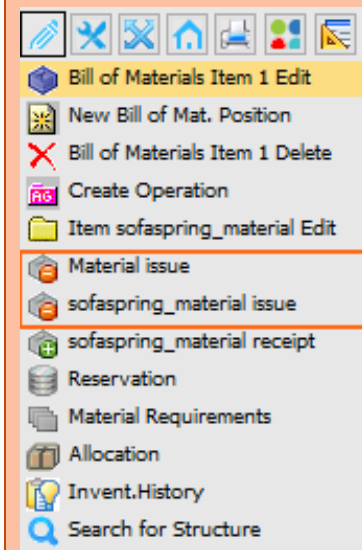
To set the menu options available from the work order go to the *Work Orders* window and access the right-click menu → Home icon → Windows Settings



Set the options that are required.



Depending on whether the options are activated, the following are available in the work order right-click menu.



## 6.2. Account Definition for Manual and Correction Type Material Issue

For manual and correction type material issues started from the Modules → Inventory → Inventory Transactions → Issue manually (single event) menu, the transaction accounts can be defined at Configuration Wizard → Material Management → Manual Entries → Account Settings:

**Manual outflow:** Manual goods issues with Manual reference. G/L account for material debit. Default: Inventory offset - Decrease

**Correction outflow:** Manual goods issues with Correction reference. G/L account for material debit. Default: Inventory offset - Decrease

For production postings, the WIP account is used.