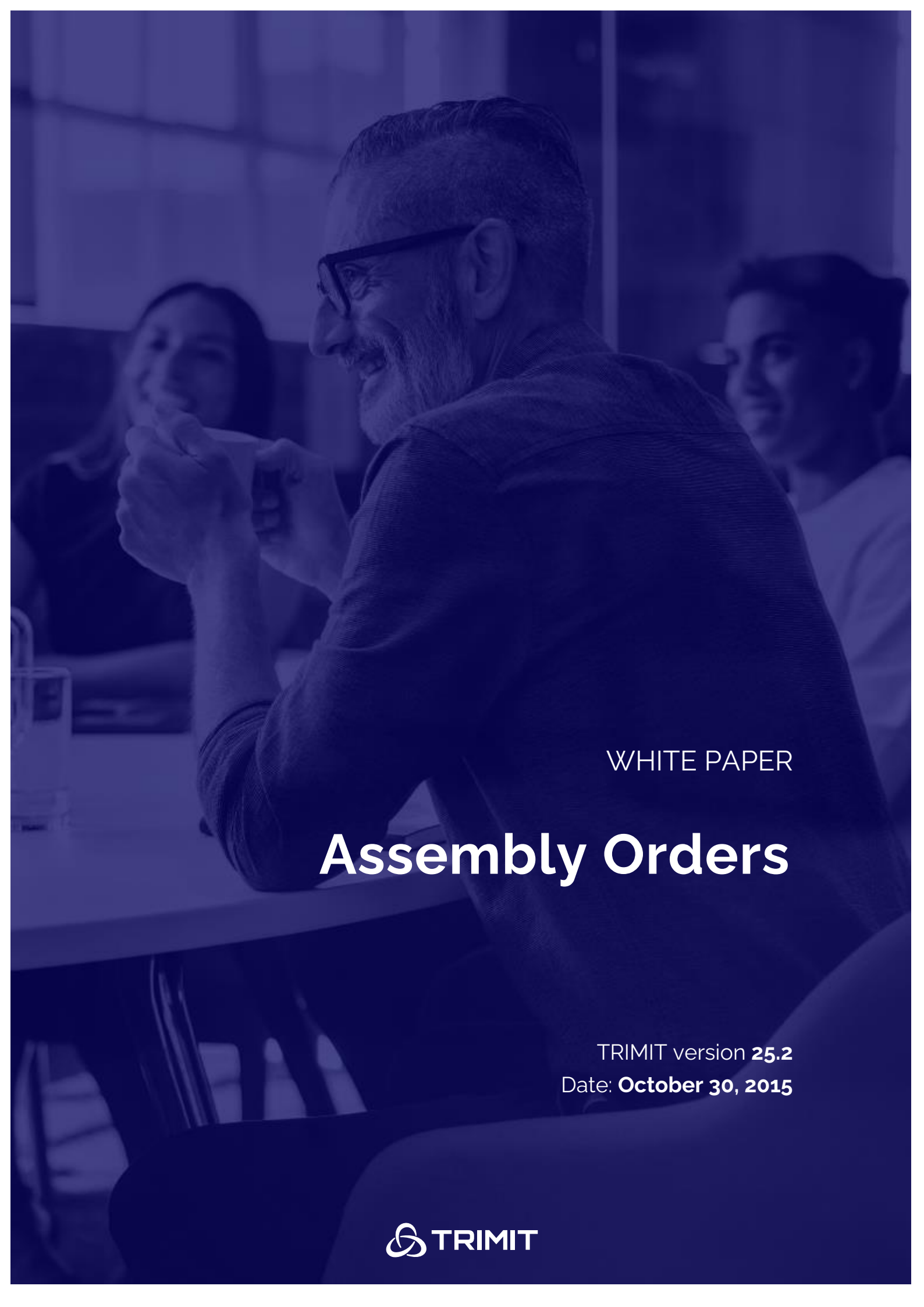




WHITE PAPER

Assembly Orders

TRIMIT version **25.2**

Date: **October 30, 2015**

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Introduction

This White Paper describes how you can use the **Assembly** functionality in TRIMIT.

Not all the functionality that BC has regarding **Assembly** is applicable in TRIMIT.

It is limited to Masters/Items that have **Replenishment Policy** = *Order* (assembled order based) and can only be used for Masters/Items on Sales Lines.

Assembly functionality can NOT be used for the TRIMIT Production Lines (so cannot be used for semi-finished products or materials).

For more information regarding Business Central Items Assembled to Order see:

[Sell Items Assembled to Order - Business Central | Microsoft Learn](#)

The audience for this document is the Consultant or very skilled User. It will only describe the TRIMIT fields/functionality and not the standard Business Central fields/functionality. Be aware of not changing settings and parameters in a live database without consulting the implementing partner.

The functionality described is the functionality as of **TRIMIT 25.2 for Business Central W1 BC27.X**.

The pictures in this White Paper are based on the demo data for **TRIMIT 25.2**, which is based on Microsoft Dynamics 365 Business Central 2025 Release Wave 2, in the demo company **CRONUS TRIMIT W1 Ltd.** (based on CRONUS International Ltd. of Microsoft Dynamics 365 Business Central).

Components

TRIMIT Assembly Orders contain the following objects:

The table extensions

6036614 trm Assembly Header Ext extends

900 Assembly Header

6036617 trm Assembly Line Ext extends

901 Assembly Line

6036618 trm Posted Assembly Line Ext extends

911 Posted Assembly Line

The page extensions

6036719 trm Assembly Order Subform Ext extends

901 Assembly Order Subform

6036724 trm Post. Assembly Subform Ext extends

921 Posted Assembly Order Subform"

Assembly Setup

Master

TRIMIT only supports the Assembly Orders that will be created **order based**.

This also means that the **Replenishment Policy** in the Master needs to be set to *Order*.

This will also set the **Assembly Policy** in the Items of a Master to *Assemble-to-Order*.

In the Master, you can select **Assembly** as the **Replenishment System**.

I.e., for an *Assembly Chair* that is assembled based on a *Seat* and *Legs*:

The screenshot displays the 'Master Card' for item '6110 · Assembly Chair'. The interface is divided into several sections:

- General:** Contains fields for No. (6110), No. System (MMMMAA88), Description (Assembly Chair), Base Unit of Measure (PCS), Status Code, Collection No., Collection Relation (No), Private Label, and Exclude from Collection Check. It also includes a 'Groups/Types' section with fields for Item Type (Finished Goods), Item Category Code, Design, Item Group, Gender, Item Statistics Group 4, and Item Statistics Group 5.
- Costs & Posting:** A section for cost and posting details.
- Planning:** Contains 'Purchase' fields (Vendor No., Vendor Item No.), 'MRP' fields (Include in MRP, Automatic Replenishment, Replenishment System, Replenishment Policy, Create Related Order Instantly, MRP Method), and 'Reorder-Point Parameters' (Reorder Point, Reorder Quantity, Maximum Inventory, Lead Time Calculation, Material Consumption on Demand).
- BOM Information:** Fields for BOM, Phantom Item, Information Item, and Exclude from Transfer on Prod...

In the 'Planning' tab, the 'Replenishment System' is set to 'Assembly' and the 'Replenishment Policy' is set to 'Order'. A red box highlights these two fields. To the right, there is a 'Master Pictures' section showing a chair image with a blue border.

But you need to set the **Replenishment Policy** to *Order* first, otherwise you will get an error message.

This screenshot shows the 'Master Card' with an error message displayed. The error message is a red box with the text: 'When Replenishment Policy is set to Inventory, Replenishment System can not be set to Assembly'. The 'Replenishment System' is set to 'Assembly' and the 'Replenishment Policy' is set to 'Inventory'. The error message is positioned over the 'Replenishment System' field.

It is up to the user, if it will set the **Create Related Order Instantly** to *TRUE* or *FALSE* to create a Related Assembly Order immediately after entering the **Quantity** on a Sales Line.

To be able to see the availability for this *Assembly Chair*, you want to see the availability of the two Items that will be assembled: the *Seat* and the *Legs*.

Therefore, you can make use of the **Inventory Profile Components** by setting the **Management Level Sales** as a higher number than the **Management Level**:

Misc. Parameters Show less

Forecast Item		Availability	
Location Code Mandatory	☒	Availability Check Sales	Available
Template Creating a Master	☐	Availability Check Production	None
Template Sales Line	☐	Horizon Availability Check	
Created via Template		Check for Blanket Order	☐
Management Level		Basis for Bottleneck Reservation	None
Management Level	1	Bottleneck Reservation Method	Test Capacity
Management Level Sales	4	Bottleneck Reservation By	Sales Line
Management Level Production	0		
Management Level Bottleneck	0		
Product Family			

And in the *Seat* and the *Legs*, the **Management Level** should be set as the **Management Level Sales** from the *Assembly Chair*.

Master Card M3000 · Molded Chair Seat

[Home](#) [Reports](#) [Actions](#) [Related](#) [Reports](#) [Automate](#) [Fewer options](#)

[Bill of Materials](#) [Composition](#) [Additional Info](#) [New by Wizard](#) [Attributes](#) [Inventory Profile](#) [Image Management](#)

[Workflow](#) [Care Label](#) [Additional Tags](#) [Copy Values](#) [Collections](#) [Statistics](#)

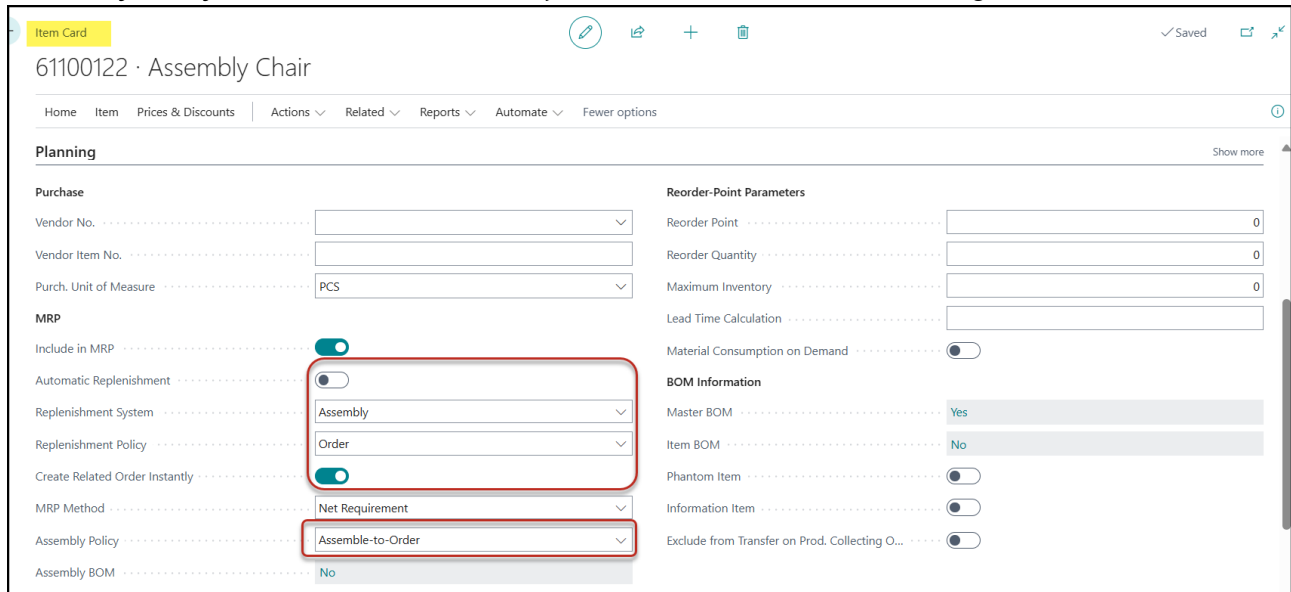
[Measurement Chart](#) [Sustainability](#) [Additional Comments](#) [VarDim Master](#) [Item List](#) [Product Information \(PIR\)](#)

Misc. Parameters Show less

Forecast Item		Availability	
Location Code Mandatory	☒	Availability Check Sales	Available
Template Creating a Master	☐	Availability Check Production	None
Template Sales Line	☐	Horizon Availability Check	
Created via Template		Check for Blanket Order	☐
Management Level		Basis for Bottleneck Reservation	None
Management Level	4	Bottleneck Reservation Method	Test Capacity
Management Level Sales	4	Bottleneck Reservation By	Sales Line
Management Level Production	0		
Management Level Bottleneck	0		
Product Family			

Item

Based on the fields of a [Master](#), the corresponding fields in the Items will be filled, and the field **Assembly Policy** will also be set to *Assembly-to-Order* and should not be changed.



Item Card

61100122 · Assembly Chair

Home Item Prices & Discounts Actions Related Reports Automate Fewer options

Planning

Purchase

Vendor No. Vendor Item No. Purch. Unit of Measure PCS

MRP

Include in MRP Automatic Replenishment Replenishment System Assembly Replenishment Policy Order Create Related Order Instantly MRP Method Net Requirement Assembly Policy Assemble-to-Order Assembly BOM No

Reorder-Point Parameters

Reorder Point Reorder Quantity Maximum Inventory Lead Time Calculation Material Consumption on Demand

BOM Information

Master BOM Yes Item BOM No Phantom Item Information Item Exclude from Transfer on Prod. Collecting O...

Of course, you can set these fields on individual Items manually as well.

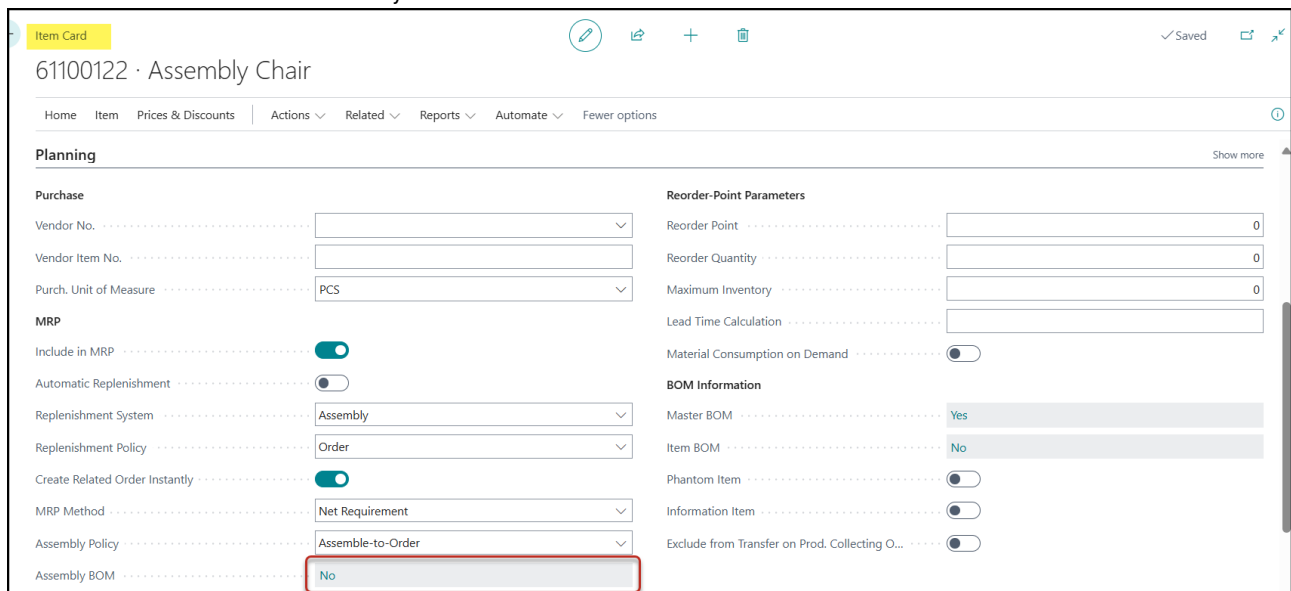
But you need to make sure that if **Replenishment System** is set to *Assembly*, the **Replenishment Policy** needs to be *Order* and based on that, the **Assembly Policy** will also be set to *Assemble-to Order* and should not be changed.

Using Assembly BOM on Items

On every Item, you can click on the field **Assembly BOM** to create the Assembly BOM for the Item.

In that case, you can enter Lines of **Type Item** and **Resource**.

That is standard BC functionality.



Item Card

61100122 · Assembly Chair

Home Item Prices & Discounts Actions Related Reports Automate Fewer options

Planning

Purchase

Vendor No. Vendor Item No. Purch. Unit of Measure PCS

MRP

Include in MRP Automatic Replenishment Replenishment System Assembly Replenishment Policy Order Create Related Order Instantly MRP Method Net Requirement Assembly Policy Assemble-to-Order Assembly BOM No

Reorder-Point Parameters

Reorder Point Reorder Quantity Maximum Inventory Lead Time Calculation Material Consumption on Demand

BOM Information

Master BOM Yes Item BOM No Phantom Item Information Item Exclude from Transfer on Prod. Collecting O...

61100122 · Assembly Chair								
Assembly BOM								
Type	No.	Description	Assembly BOM	Quantity per	Unit of Measure Code	Installed in Item No.	Position	
Item	M30001001	Molded Chair Seat	No	1	PCS			
Item	M3015W22	Chair Frame-Bottom	No	1	PCS			
→ Resource	ASSEMBLY	Assembly Department	No	5	MIN			

Using Production BOM on Master

However, instead of creating an **Assembly BOM** on every individual Item, you can also make use of the **Production BOM Component Lines** on the Master for all the Items of the Master.

Therefore, for our *Chair*, it might be

6110 · Assembly Chair													
BOM Component Lines													
Type	Part Item No.	Group Filter	No.	Description	Quantity per	Unit of Measure Code	Search Expression	Qua... per in Sear... Table	Formula	Work Center	Infor... Item	Excl... from Tran... on	Comm...
Item		FURNPARTS	M3000	Molded Chair Seat	1	PCS		☐	3000_10000		☐	☐	No
Item		FURNPARTS	M3015	Chair Frame-Bottom	1	PCS		☐	3000_20000		☐	☐	No
→ Operation		OPERATIONS	300050	Mount	5	MIN		☐		3050	☐	☐	No

Unfortunately, we will not "convert" an *Operation* to a *Resource* automatically for an Assembly Order Line, but there is a subscriber available to customize such a conversion.

Therefore, only the **BOM Component Lines** of **Type Item** will be created as Lines in a Related Assembly Order of a Sales Line.

Inventory Profile Setup

In the **Inventory Profile Setup** Card, you are able to set **Include Assembly Orders** to *TRUE*, to calculate availability of assembled Items (*Assembly Order Increases*) and for the Items that need to be assembled (*Assembly Order Decreases*).

Inventory Profile Setup		
ALL		
General		
Code	ALL	Description
		Comment
		Locked
Include Settings		
Inventory	Production	Assembly
Include Inventory	Include Production Suggestions	Include Assembly Orders
Sales	Include Production Orders	Project
Include Sales Quotes	Transfer	Include Project Planning Lines
Include Sales Orders	Include Transfer Orders	Intercompany
Include Sales Invoices	Purchase	Include Intercompany
Include Sales Blanket Orders	Include Purchase Quotes	
Include Sales Credit Memos	Include Purchase Orders	
Include Sales Import Lines	Include Purchase Invoices	
Complaint	Include Purchase Blanket Orders	
Include Complaints	Include Purchase Credit Memos	

Example: For the *Assembly Chair* you will be asked which Inventory Profile you want – if you have setup the **Management Levels** the correct way.

Item Inventory Profile

Component Inventory Profile

OK

Cancel

Item Inventory Profile will show the availability of the assembled Item itself.

Inventory Profile

✓ Saved

Edit List

Update Inventory Profile

More options

Options

Item

61100122

Profile Type

SAL-ASSEM

Item Description

Assembly Chair

Lookup Company

Item Description 2

Snow,Oak Whiteoil

Availability Date

10/24/2025

Location Filter

Available Qty.

0

Global Dimension 1 Filter

Inventory

0

Global Dimension 2 Filter

Date	Expected Inventory	Qty. on Sales Orders	Prod. Decreases (Quantity Base)	Prod. Increases (Quantity Base)	Assembly Increases (Quantity Base)	Assembly Decrease (Quantity Base)
→ 10/23/25	0	0	0	0	0	0
10/24/25	0	8	0	0	8	0
04/24/26..	0	0	0	0	0	0

Inventory Profile Components will show the availability of the Items that needs to be assembled.

Inventory Profile Components

Related

Options

Item

61100122

Global Dimension 2 Filter

Item Description

Assembly Chair

Profile Type

SAL-ASSEM

Item Description 2

Snow,Oak Whiteoil

Availability Date

10/24/2025

Location Filter

Available Qty.

0

Global Dimension 1 Filter

Transaction	61100122	M30001001 [Usage 1]	M3015W22 [Usage 1]				
10/23/25	0	0	0	-	-	-	-
10/24/25	-8	-8	-8	-	-	-	-
→ 04/24/26..	-8	-8	-8	-	-	-	-

In case your Assembly Master is a Matrix Master, it might look as follows:
 For a *Suit* that needs to be assembled based on a *Blouse* and a *Trousers*

Matrix Inventory Profile

Change Transaction Type

Update Inventory Profile

More options

Options

Type

Matrix

Profile Type

SAL-ASSEM

Master No.

6100

Show Transaction Type

Transaction

Y-Axis

Lookup Company

Y-Axis Title

Limit Horizon

Location Filter

Horizon Date

Global Dimension 1 Filter

Calculate Assortment

Quantity

Global Dimension 2 Filter

Transaction	Desc...	Line Quantity	36	38	40	42	44	46	48
→ 6100 Suit	Suit	—	—	—	—	—	—	—	—
20 Royal Blue	Suit	—	—	—	—	—	—	—	—
Inventory	Suit	0	0	0	0	0	0	0	0
Sales Orders	Suit	5	0	5	0	0	0	0	0
Prod. Order Decreases	Suit	0	0	0	0	0	0	0	0
Assembly Order Increases	Suit	5	0	5	0	0	0	0	0
Assembly Order Decreases	Suit	0	0	0	0	0	0	0	0
Prod. Order Increases	Suit	0	0	0	0	0	0	0	0
Available II	Suit	0	0	0	0	0	0	0	0

Matrix Inventory Profile

Change Transaction Type

Update Inventory Profile

More options

Options

Type

Matrix

Profile Type

SAL-ASSEM

Master No.

2100

Show Transaction Type

Transaction

Y-Axis

Lookup Company

Y-Axis Title

Limit Horizon

Location Filter

Horizon Date

Global Dimension 1 Filter

Calculate Assortment

Quantity

Global Dimension 2 Filter

Transaction	Description	Line Quantity	XS	S	M	L	XL	XXL	3XL
→ 2100 Lily Blouse	Lily Blouse	—	—	—	—	—	—	—	—
20 Royal Blue	Lily Blouse	—	—	—	—	—	—	—	—
Inventory	Lily Blouse	434	15	69	116	112	67	40	15
Sales Orders	Lily Blouse	218	0	33	65	66	35	18	1
Prod. Order Decreases	Lily Blouse	0	0	0	0	0	0	0	0
Assembly Order Increases	Lily Blouse	0	0	0	0	0	0	0	0
Assembly Order Decreases	Lily Blouse	5	0	5	0	0	0	0	0
Prod. Order Increases	Lily Blouse	0	0	0	0	0	0	0	0
Available II	Lily Blouse	211	15	31	51	46	32	22	14

MRP Setup

In the **MRP Setup** Card, the Items of the Assembly Orders will also be included unless you have set the **Skip Assembly Orders** to *TRUE*.

MRP Setup

✓ Saved

NET FASHION

Filters

Show more

Filter Global Dimension 1

▼

Filter Global Dimension 2

▼

Sales

Skip Sales Quote

Skip Sales Invoice

Skip Sales Credit Memo

Skip Sales Blanket Order

Purchase

Skip Purchase Requisition

Skip Purchase Invoice

Skip Purchase Credit Memo

Skip Purchase Blanket Order

Production

Skip Production Suggestio...

Other

Skip Inventory

Skip Intercompany Orders

Skip Assembly Orders

Skip Project Planning Lines

Therefore, for our *Chair*, there were enough *Legs* available, but not enough *Seats*. Therefore, when running the MRP for the *Chair*, the result might look as follows:

MRP Actions

✓ Saved

Journal Batch Name DEFAULT ...

Filter Posted All ▼

Filter Type All ▼

Run MRP By Items ▼

MRP Setup NET FASHION ▼

Manage

Run MRP

Post Current Line

MRP Setup

Item

Master

Inventory Profile

More options

Low-Level Code ↑	Type ↑	Production Series	Item No. ↑	Item Description	Item Description 2	App...	Action	Sub-Action	Calc... Base Cha...	Post...	Existing Quantity	Replacement Quantity	Difference
1	Purchase Order		M30001001	Molded Chair Seat	Plastic Zeus, Snow		New Order				0.00	8.00	8.00

Process for Assembly

- ➔ Entering the Sales Line, which will create the **Related Assembly Order** based on **Create Related Order Instantly** in the Master and based on the **Item BOM, Master BOM** or **Assembly BOM**.

- Otherwise, you can create the **Related Assembly Order** manually via

Exp... Mat...	Type	No.	Description	Description 2	Location Code	Quantity	Unit Measure	Cost Center
→	Item	61100122	Assembly Chair	Snow,Oak Whiteoil	BLUE	8	PCu	

- Or the **Related Assembly Order** could be created when running an MRP.

- ➔ If the **Assembly Order** is created based on an **Item BOM** or **Master BOM**, you need to determine if you want to include **Resource Lines** manually.

- You can also consider adding an **Indirect Cost %** or **Overhead Rate** in the Assembly Header to get the right Unit Cost for the assembled Item – of course these two fields can already be filled based on the corresponding fields in the assembled Item itself.

- ➔ When adding a **Resource** or changing an **Indirect Cost %** or **Overhead Rate** in the Assembly Order, make sure you click **Prepare, Update Unit Cost**, so the field **Unit Cost** of the Assembly Order will also be updated.

Assembly Order - A00005 - Assembly Chair

Manage Home **Prepare** Print Warehouse Order Page More options

Update Unit Cost Refresh Lines Copy Document Refresh Availability Reserve...

- ➔ Because the **Assembly Order** is always based on **Assemble-to-Order** and therefore a Related Order to a Sales Line, you do not have to post any consumptions of the Item Lines of the Assembly Order manually. It will automatically happen when you ship/invoice the Related Sales Line.