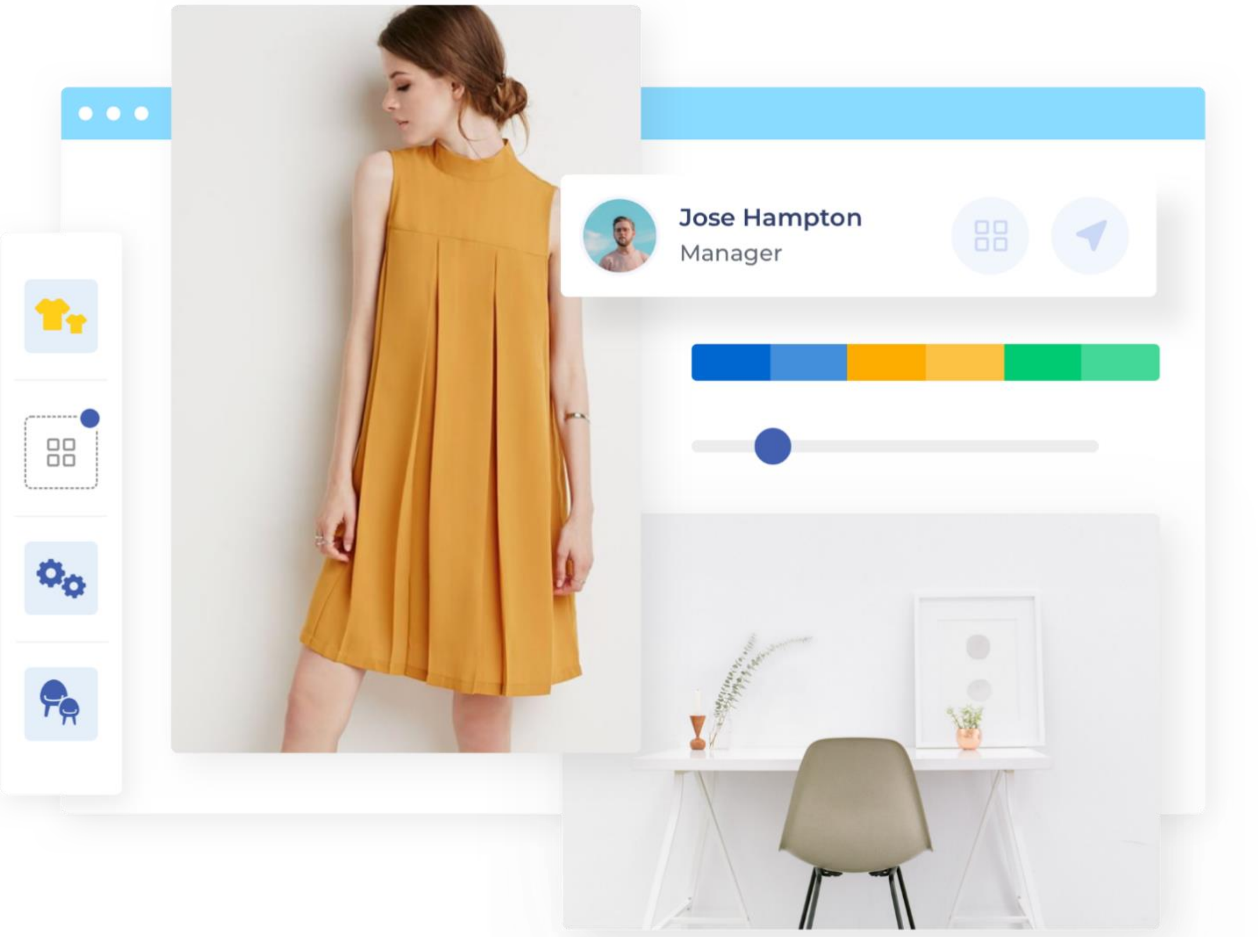


WHITE PAPER

TRIMIT MATERIAL REQUIREMENT PLANNING (MRP) BC16

This document contains information about the Material Requirement Planning (MRP) functionality in TRIMIT for Business Central BC16.

Version: BC16.1.700.0
Date: 24-07-2020

CONTENTS

INTRODUCTION

TRIMIT Material Requirement Planning (MRP) is a tool to calculate the demand of your Items and to determine which Quantities on which Date should be bought, produced or transferred to fulfill this demand.

- It is the combination of a Master Production Schedule and a Material Requirement Plan
- It can create Purchase Requisitions (Purchase Quotes) or Purchase Orders based on the fields in the Stockkeeping Unit (SKU) or Item and the fields of the MRP Setup.
- It can create TRIMIT Production Suggestions or TRIMIT Production Orders based on the fields in the Stockkeeping Unit (SKU) or Item and the fields of the MRP Setup.
- It can create TRIMIT Production Collecting Orders based on the Stockkeeping Unit (SKU) or Item and the fields of the MRP Setup.
- It can create Transfer Orders based on the fields in the SKUs and the fields of the MRP Setup.
- It can create a worksheet with all suggestions, which enables the user to determine which Orders should be created
- It can determine how Items can be combined on Purchase Orders or Production Collecting Orders by using the MRP Limitations.
- It can be executed by using a Job Queue
- It will do **nothing** with standard Business Central BOM or Routing
- It will do **nothing** with standard Business Central Requisition Worksheet
- It will do **nothing** with standard Business Central Production Planning
- It will do **nothing** with standard Business Central Production Orders

Basics for these calculations are the fields on the SKUs (if they exist per Item + Location!) or Items, the MRP Setups and the MRP Limitations.
Part of these fields are standard Business Central fields, part is specific TRIMIT fields.

For several pictures in this White Paper, some data has been added to the demo company.
See these additions in Extra Data.

The functionality described is the functionality in **TRIMIT for Business Central W1 BC16**.
The pictures in this White Paper are based on the demo database of **TRIMIT Business Central W1 BC16**, which is based on Microsoft Dynamics 365 Business Central 2020 release wave 1, in the demo company **CRONUS TRIMIT W1 Ltd.** (based on CRONUS International Ltd. of Microsoft Dynamics 365 Business Central).

COMPONENTS

TRIMIT MRP contains the following objects:

The tables	***6036355 trm Call MRP***
	6037016 trm Prod. Line Buffer
	6037305 trm MRP Action
	6037306 trm MRP Action Filter
	6037307 trm MRP Setup
	6037314 trm MRP Limitation
	6037319 trm MRP Action Journal Batch
	6036524 trm Batch Log
The pages	***6037308 trm MRP Actions***
	6037309 trm MRP Setup List
	6037310 trm MRP Setup
	6037318 trm MRP Action Journal Batch
	6037320 trm MRP Action Filter
	6037321 trm MRP Limitations
	6037322 trm MRP Job Queue
	6036524 trm Batch Log
The reports	***6037317 trm MRP Action filter create***
	6037318 trm Assign Low-Level Codes
	6037319 trm MRP by Prod. Order
	6037320 trm MRP by Sales Line
	6037321 trm MRP by Item
	6037322 trm MRP by Prod. Coll. Order
The codeunit	***6037326 trm MRP Job Queue***
	6037327 trm Initiate MRP
	6037328 trm Create Prod. Header
	6037329 trm Create Purchase Order
	6037330 trm MRP
	6037331 trm Create Transfer Order
	6037332 trm MRP Report Handling

Besides these special objects, also in existing Tables/Pages new fields have been added.

TWO PRINCIPLES

Basically, there are two different principles for the Material Requirement Planning on Items in TRIMIT:

- Order Initiation
- Inventory Initiation
    - Gross Calculation
    - Net Calculation

The choice of principle is set up on the individual SKU/Item/Master and can be over-ruled by the set up on the MRP Setup Card.
A Sales Order, Production Order or Transfer Order can consist of independent Items with different initiations or Replenishment Policy (some can be Order Initiated, and some can be Inventory Initiated).

The TRIMIT MRP Calculation will automatically create the BOM structure for the Item, which secures that all levels in the underlying structure are calculated in one MRP Calculation.
If not all the individual Items of a Master are created, this will be done as well if they are necessary for the creation of the total BOM structure of an Item.

ORDER INITIATED ITEMS

Order Initiated Items are per definition never on stock.
In case of Sales Lines or consumption of the Item as a Component on a Production Order, an expected increase of Inventory is connected to either a Purchase-, Production- or Transfer Order, depending on the individual set up of the Item.
All changes in quantity of the consumption will automatically initiate a change of the quantity on the related Purchase- , Production- or Transfer Order, and a deletion of the initiating Sales- or Production Order will cause a deletion of the Related Order.

Items with Order Initiation are typically used in companies, where the finished products are packed per Sales Order, consisting of different Items, or in companies that produces finished Items to the customers individual demands (Private Label).

INVENTORY INITIATED ITEMS

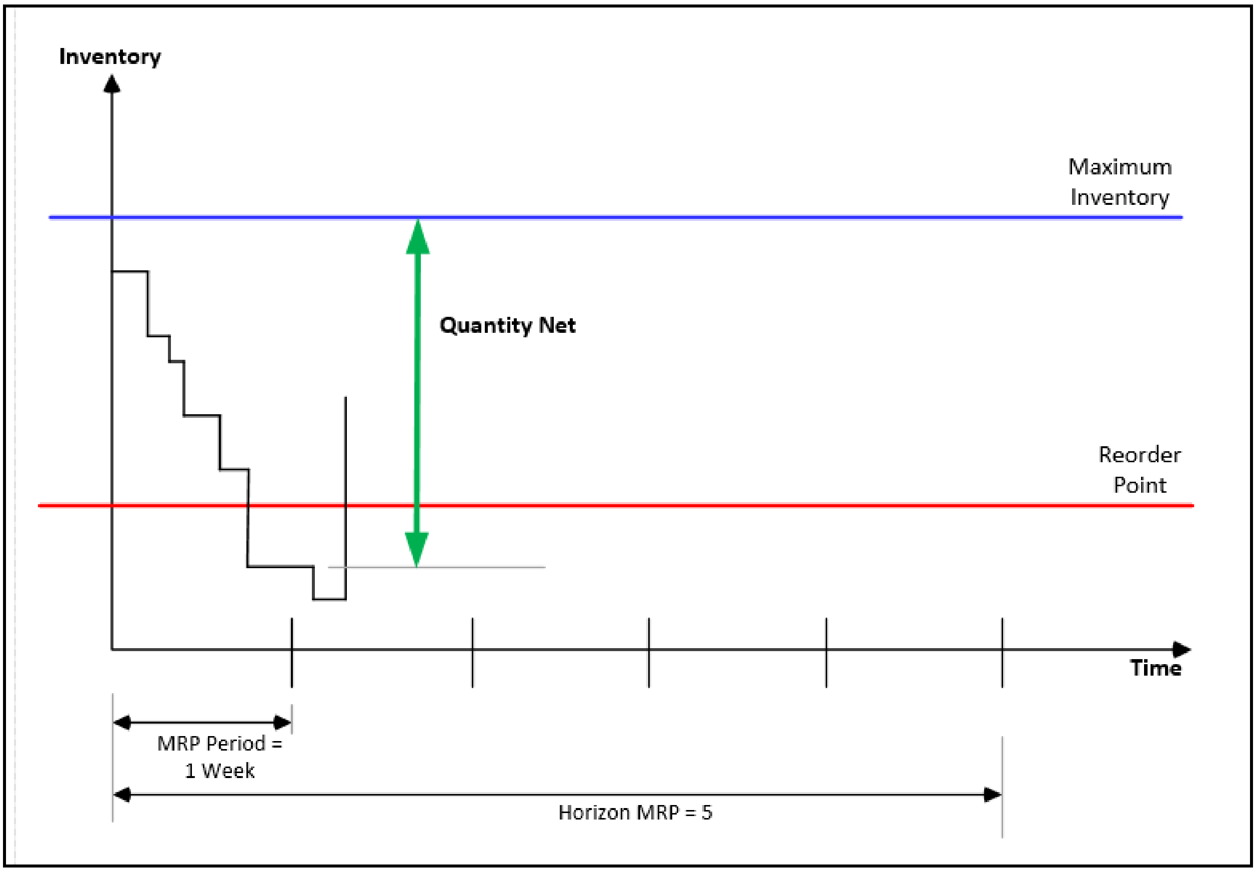
Inventory Initiated Items are per definition on stock, and all transactions in connection with the Items, are registered on the stock.
There is no direct connection with positive and negative transactions, and an increased demand will not automatically create/change Purchase-, Production- or Transfer Orders.

The orders for Purchase, Production or Transfer are created via the MRP Calculation. The rules for stock management (Reorder Point, Maximum Inventory, Reorder Quantity, etc.) are setup via the fields on the Master Card and can be specified on the Item Card or even on the Stockkeeping Unit Card (will be described below) and the fields of the MRP Setup.

- **Gross Calculation**
  By using Inventory Initiated Items with a **Gross Calculation**, the quantities on Purchase-, Production- and Transfer Orders created by the MRP equals the quantities on the Sales Orders and Production Orders (Multiple Levels). Depending on the setup of the Item, the actual stock can be deducted.

- **Net Calculation**
  By using Inventory Initiated Items with a **Net Calculation**, the quantities on Purchase-, Production- and Transfer Orders created by the MRP equals the quantities on the Sales Orders and Production Orders (Multiple Levels), in addition with the content of the fields for Maximum Inventory, Reorder Quantity, etc.
  It is possible to determine the number of suggestions by setting up rules and filters on the MRP, for instance **Horizon MRP** and **MRP Period**:
  Example:
  MRP Period: *1W*
  Horizon MRP: *5*
  Look 1W x 5=5 Weeks in advance from Starting Date and can create 5 Suggestions: one for each Week.

The illustration below shows the basic principles for the MRP. The system calculates if the Expected Quantity on stock is below the **Reorder Point** per MRP Period. The **Quantity Net** is the quantity that must be produced or purchased.



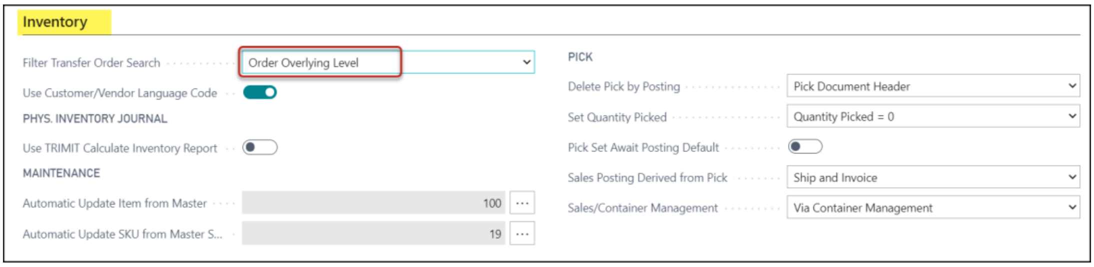
SETUPS

Many fields influence the TRIMIT MRP:

- Inventory Setup
- Production Setup
- Purchase & Payables Setup
- Fields on the Master/Item
- MRP Setups
- MRP Limitations

INVENTORY SETUP

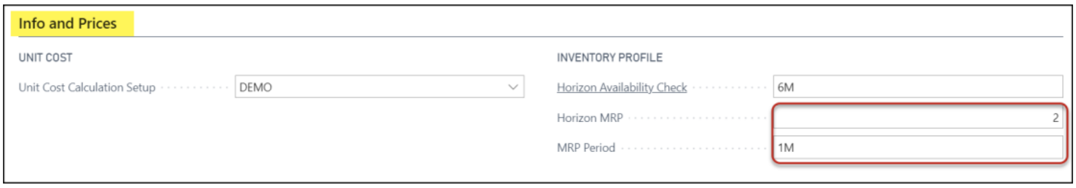
This setup can be found via **Tell me** *Inventory Setup*



FILTER TRANSFER ORDER SEARCH

When a Transfer Order is about to be created due to an MRP Calculation, the system will search for an existing Transfer Order. In this situation, a filter is set either at the initiating fields at the start level or the initiating fields at the overlying level. With this Parameter, you can determine which fields to be used. You can choose between the following two options:

Order Overlying Level	The filter will be set at Initiating Order Type Overlying Level, Initiating Document Type Overlying Level and Initiating Order No. Overlying level.
Order Start Level	The filter will be set at Initiating Order Type Start level, Initiating Document Type Start Level and Initiating Order No. Start Level.



HORIZON MRP

In connection with an MRP Calculation you must specify the horizon that determines the number (an Integer) of separate periods (see next Parameter for MRP Period) to be included in the MRP Calculation. The use of this Parameter is optional. Alternatively, you can set the **Horizon MRP** by each MRP Calculation or set **Horizon MRP** at each Master/Item.

MRP PERIOD

In connection with an MRP Calculation, you must specify **Horizon MRP** and **MRP Period**. The **MRP Period** can be entered into this Parameter and describes by a Date Formula the length of each of the Periods included in the MRP Calculation.

The use of this Parameter is optional. Alternatively, you can set the **MRP Period** by each MRP Calculation or set **MRP Period** at each Master/Item.

NOTE

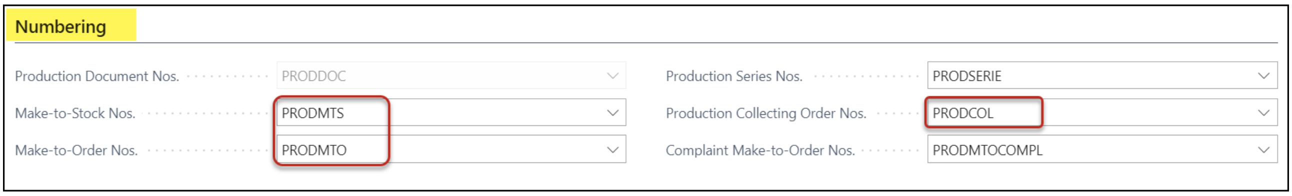
Some Examples:

If you can order your Items every month at your Vendor, you might consider an **MRP Period** of *1M*. For every 'month demand', a new Purchase Line, Production Order or Transfer Order will be created. If you have a delivery period of 2 Months for your Purchase or Production, you need to set the **Horizon MRP** at least to *3* and the **Availability Check** to *3M*.

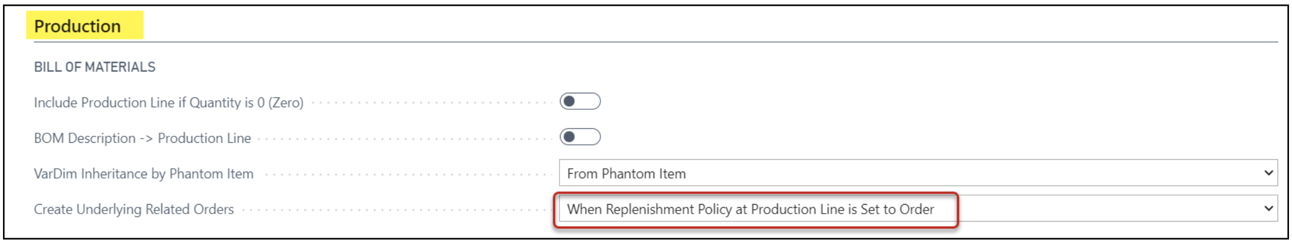
If you can order your Items only once every Season, you might consider an **MRP Period** of *6M*. For every half year, a new Purchase Line, Production Order or Transfer Order will be created. In this case, you can set the **Horizon MRP** to 1 *and* the **Availability Check** to *6M* or leave it even blank.

PRODUCTION SETUP

This setup can be found via **Tell me** *Production Setup*



The Number Series **Make-to-Stock Nos.** (for Inventory Initiated Production Orders), **Make-to-Order Nos.** (for Related Production Orders) and **Production Collecting Order Nos.** need to be filled.

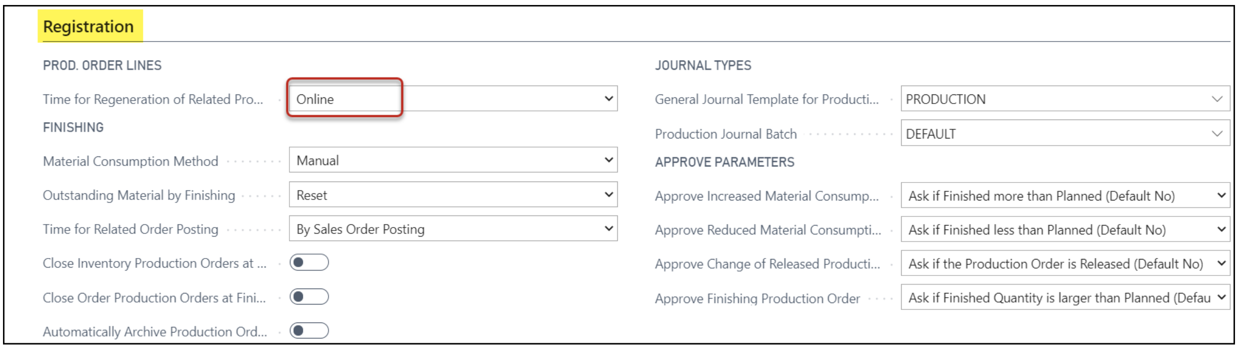


CREATING UNDERLYING RELATED ORDERS

This parameter determines at which level of a BOM structure to stop creating Related Orders.

You can choose between the following two options:

When Replenishment Policy at Production Line is Set to Order	A Related Order will always be created if **Replenishment Policy** of the Item is *Order*.
When Create Related Order Instantly is Set on Item	A Related Order will only be created if **Replenishment Policy** of the Item is *Order* and **Create Related Order Instantly** of the Item is *Yes*.



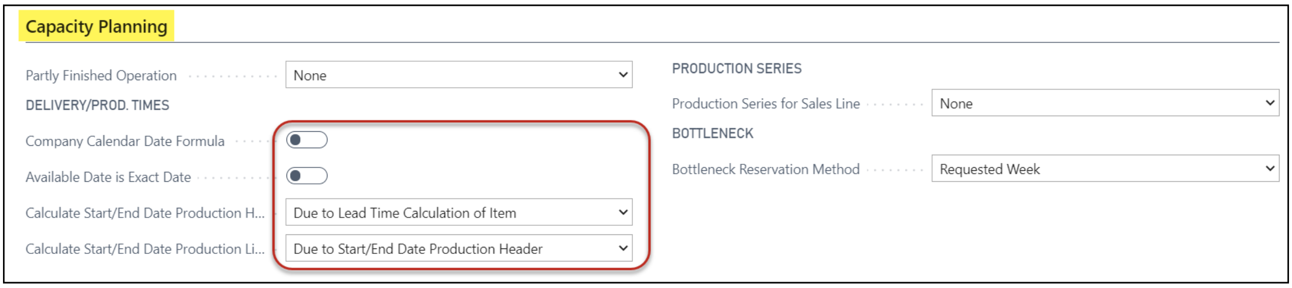
TIME FOR REGENERATION OF RELATED PRODUCTION ORDER

When you change a value in a VarDim Order attached to a Sales Line, the system will check whether a Related Production Order has already been created.

If so, the Related Production Order will be deleted and regenerated. You can use this Parameter to determine when the Related Production Order will be regenerated.

You can choose between the following two options:

Online	The Related Production Order will be regenerated when you leave the VarDim Order.
MRP Run	The Related Production Order will be regenerated next time you run an **MRP**.



COMPANY CALENDAR DATE FORMULA

This Parameter determines whether the Company Calendar is used to calculate dates.

If this Parameter is *No*, date formulas will be considered absolute.

If this Parameter is *Yes*, date formulas will be regarded as workdays.

AVAILABLE DATE IS EXACT DATE

This Parameter is used with MRP runs. In connection with an MRP run, you must specify the Parameters **Horizon MRP** and **MRP Period** in the Inventory Setup.

If the **MRP Period** for instance is a week, the MRP run will identify any lack of materials in each week within the **MRP Horizon** and create a Purchase Order or a Production Order to cover the need. The available date of such an order will be set to the day before the first day of the week where the items are needed.

If you set this Parameter to *Yes*, the system will find the first day where the lack of material exactly shall be used and change the available day to the day before this date.

CALCULATE START/END DATE PRODUCTION HEADER

When you create a Production Header, Start Date and End Date can be set automatically.

You can use this Parameter to determine how these dates will be updated.

You can choose between the following three options:

Due to Lead Time Calculation of Item	If the **Start Date** is set, the **End Date** will be calculated using the **Lead Time Calculation** of the Item. If the **End Date** is set, the **Start Date** will be calculated likewise.
Due to Start/End Dates of Production Lines	The **Start Date** and **End Date** will not be updated until the Production Lines have been created. Then **Start Date** will be updated with the earliest **Start Date** of the Production Lines and **End Date** will be updated with the latest **End Date** of the Production Lines.

Due to Start/End Dates of Production Series	If **Production Series** is entered, **Start Date** will be updated with the **Start Date** of the **Production Series** and **End Date** will be updated with the **End Date** of the **Production Series**. If the **Production Series** is not filled, **Start Date** and **End Date** will be updated using the method *Due to Lead Time Calculation of Item* (see description on top of this option table).

CALCULATE START/END DATE PRODUCTION LINE

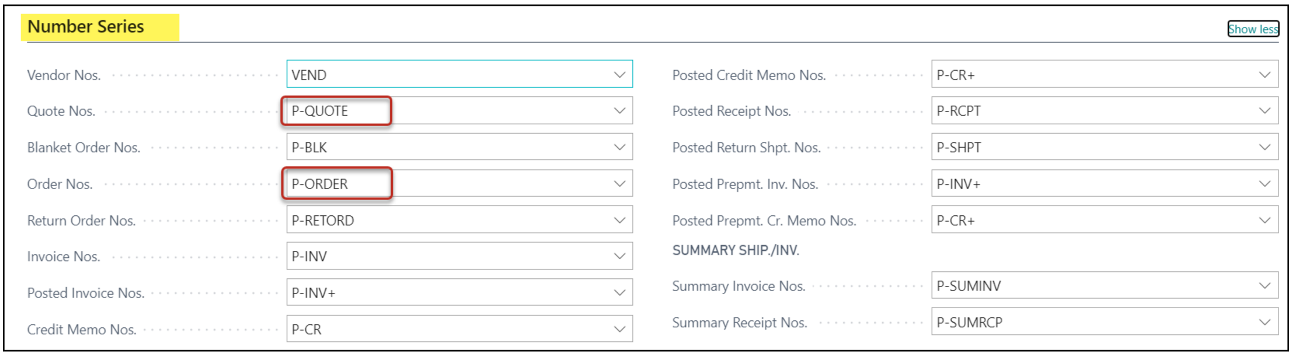
When you create a Production Line, **Start Time** and **End Time** can be set automatically.
You can use this Parameter to determine how these time indications will be updated.
You can choose between the following four options:

Due to Start/End Date Production Header	**Start Date** and **End Date** will be updated with the respective **Start Date** and **End Date** of the Production Header.
Capacity Calculation	**Start Date** and **End Date** will be calculated based on the available capacity found via the respective Work Center (TRIMIT) calendars.
Stagger Due to Production Series	**Start Date** and **End Date** will be calculated and updated, using the respective **Start Date** and **End Date** of the **Production Series** of the Production Header.
Stagger Due to Production Header	**Start Date** and **End Date** will be calculated and updated, using the respective **Start Date** and **End Date** fields of the Production Header.

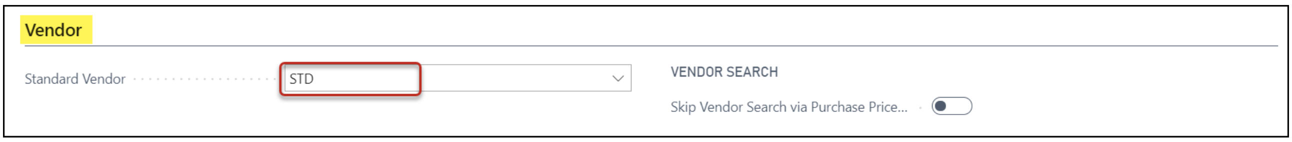
NOTE
The parameters in the **Production Setup** are in Table **313 Inventory Setup**

PURCHASE & PAYABLES SETUP

This setup can be found via **Tell me** *Purchases & Payables Setup*



The Number Series for **Quote Nos.** and **Order Nos**. need to be filled.



STANDARD VENDOR

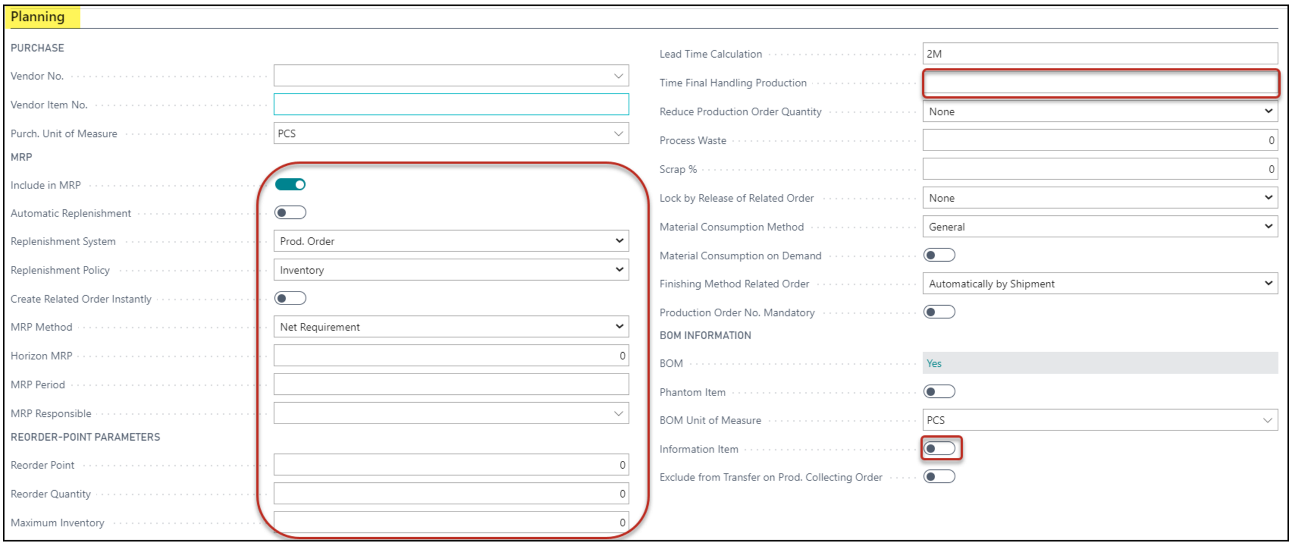
The parameter **Standard Vendor** must be filled. The MRP will create Purchase Orders or Requisitions for this Vendor if no **Vendor No.** is filled in the Item.

FIELDS FOR MRP ON THE MASTER/ITEM/SKU CARD

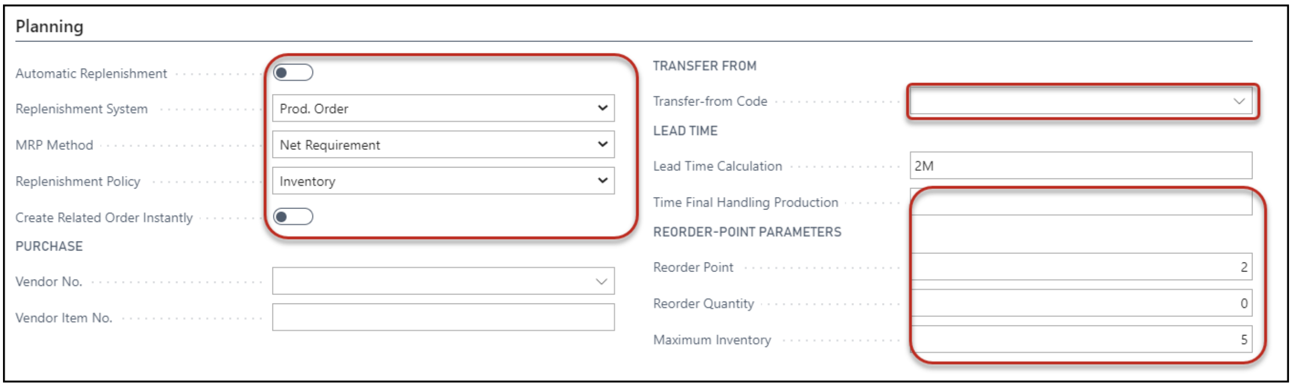
Below is a description of the TRIMIT fields on the Master, Item and SKU in connection to TRIMIT MRP.
As normal, all fields from the Master are transferred to the Item (and from the Item to the SKU) when the Items are created based on the Master or if fields on the Masters are changed. Individual settings can be set on the individual Item and/or SKU's.
The MRP Calculation will first check if an SKU exist for a specific Item + Location for the necessary fields. If this SKU does not exist, it will check the fields on the Item.

FIELDS ON MASTER, ITEM SKU CARD, FASTTAB PLANNING

For Master and Item:



Some of these fields can also be found on the FastTab ***Planning*** of the Stockkeeping Unit:



DESCRIPTION OF THE FIELDS:

INCLUDE IN MRP

If this field is set to *No*, this Master/Item will be skipped when running an MRP. If the Item is included in a BOM related to a Master/Item with the field **Create Related Order Instantly** set to *Yes*, it will not be included in the availability check unless this field is set to *Yes*.

NOTE
Blocked Items are always excluded from the MRP.

AUTOMATIC REPLENISHMENT

Without a checkmark in this field, the **Replenishment System** determines if the Item will be bought (Purchase) or produced (Production Order).
With a checkmark in this field, the system will determine automatically, if it should be bought (there are no Bill of Material Lines) or produced (there are Bill of Material Lines)

REPLENISHMENT SYSTEM

In this field, you can select the type of order to be used by the system when creating Orders and Order Suggestions by running the MRP.
In the Master/Item Card, you can choose between the following two options:

Prod. Order	A Production Order will be created to replenish the inventory. Even if there is no BOM.
Purchase	A Purchase Order will be created to replenish the inventory. Even if there is a BOM.

On the SKU Card, there are two more options:

Transfer	A Transfer Order will be created to replenish the inventory.
Assembly	Only when using flat Items (without a Master or specific TRIMIT functionality like the configuration) you can use this option to create an Assembly Order. This is however not supported in the MRP Calculation of TRIMIT. Therefore, you need to use standard Business Central Planning Worksheet.

NOTE
Transfer Orders will only be created, if you use the MRP Actions; not it you use one of the MRP Reports.

REPLENISHMENT POLICY

You can use this field to determine how the Item is replenished.
You can choose between the following three options:

Inventory	The Item will be included in an MRP Calculation unless the field **Include in MRP** is set to *No*.
Order	The Item will be skipped in an MRP Calculation, because a Related Order will be created every time the Item is used in a Sales Order or a Production Order – depending on the fields in the MRP Setup.

CREATE RELATED ORDER INSTANTLY

This field cannot be set to *Yes* unless **Replenishment Policy** is set to *Order*. When this field is set to *Yes*, a Related Order will be created automatically when the Master/Item is used in a Sales Line or a Production Order Line.
If the parameter **Instant Reservation Underlying Level** in the Sales & Receivables Setup – FastTab ***Info and Prices*** is set to *Yes*, an Instant Reservation will not be created until the Item is used in a Sales Order. Afterwards the Instant Reservation will be converted to a Related Order.

MRP METHOD

You can use this field to determine how the MRP calculates the demand of the Item when the field **Calculation Method** in the **MRP Setup** is set to *By Item.*

You can choose between the following four options:

Min. Reorder Quantity	The quantity to be ordered will be set to **Maximum Inventory** reduced by the calculated quantity available. If **Maximum Inventory** is less than **Reorder Point**, **Maximum Inventory** that will be used in the calculation of the quantity to be ordered will be set to **Reorder Point**. If the calculated quantity to be ordered is less than **Reorder Quantity**, the quantity to be ordered will be set to **Reorder Quantity**.
Net Requirement	The quantity to be ordered will be set to **Maximum Inventory** reduced by the calculated quantity available. If **Maximum Inventory** is less than **Reorder Point**, **Maximum Inventory** that will be used in the calculation of the quantity to be ordered will be set to **Reorder Point**.
Multiple of Order Volume	The quantity to be ordered will be set to the multiple of **Reorder Quantity,** which will result in a quantity in stock larger than **Maximum Inventory**. If **Maximum Inventory** is less than **Reorder Point**, **Maximum Inventory** that will be used in the calculation of the quantity to be ordered will be set to **Reorder Point**
Gross Requirement	The quantity to be ordered will be set to the exactly calculated quantity. The calculated quantity will not be reduced by the quantity available.

Examples of how the options work for a single MRP Period if there is no available quantity.

				MRP Method in Master/Item			
			Requirement	Min. Reorder Quantity	Net Requirement	Multiple of Order Volume	Gross Requirement
Example 1	Reorder Point	0	50	*100*	*50*	*100*	*50*
	Reorder Quantity	100	150	*150*	*150*	*200*	*150*
	Maximum Inventory	0					
Example 2	Reorder Point	75	50	*125*	*125*	*200*	*50*
	Reorder Quantity	100	150	*225*	*225*	*300*	*150*
	Maximum Inventory	0					
Example 3	Reorder Point	75	50	*250*	*250*	*300*	*50*
	Reorder Quantity	100	150	*350*	*350*	*400*	*150*
	Maximum Inventory	200					

NOTE

If there is no demand based on Sales Orders or Production Component Lines, the MRP Calculation will only calculate the necessary quantity based on **Reorder Point** and **Maximum Inventory,** if the **Reorder Point** is <> *0.*

NOTE

The fields **Reorder Point, Reorder Quantity** and **Maximum Inventory** can be important as well for the MRP Calculation but are not described here: they are standard Business Central fields.

However, especially regarding MRP Calculation resulting in Transfer Orders, these fields needs to be set. Not even on the Item, but on the Stockkeeping Units based on Item + Location.

To change the values on Items and Stockkeeping Units in an easy way, you can use the TRIMIT Item and SKU Maintenance functionality, which is in detail described in the ***White Paper – TRIMIT Item and SKU Maintenance***.

HORIZON

The **Horizon** describes how many **MRP Periods** to create orders for.
Example: *1W* in **MRP Period** and *4* in **Horizon** calculates the demand 4 weeks forward (with one Order (Line) per week).
Filling this field is optional as the **Horizon** can also be set via the **MRP Setup**.

MRP PERIOD

The **MRP Period** (Date Formula field) describes the period in which a demand should be created.
Example: *1W* is describing that all demand in a week is accumulated and one Order (Purchase Line, Production Order or Transfer Order) is created.
Filling this field is optional as the **MRP Period** can also be set via the **MRP Setup**.

MRP RESPONSIBLE

In this field related to the **User** table, you can enter the User who is responsible for purchasing or producing the Master/Item. An MRP Calculation will then also automatically mark the created Purchase Orders or Quotes with the User as the **Purchaser** who is responsible for the purchasing.
Therefore, the **MRP Responsible** (User) must be created as a **Salesperson/Purchaser** as well.

TIME FINAL HANDLING PRODUCTION

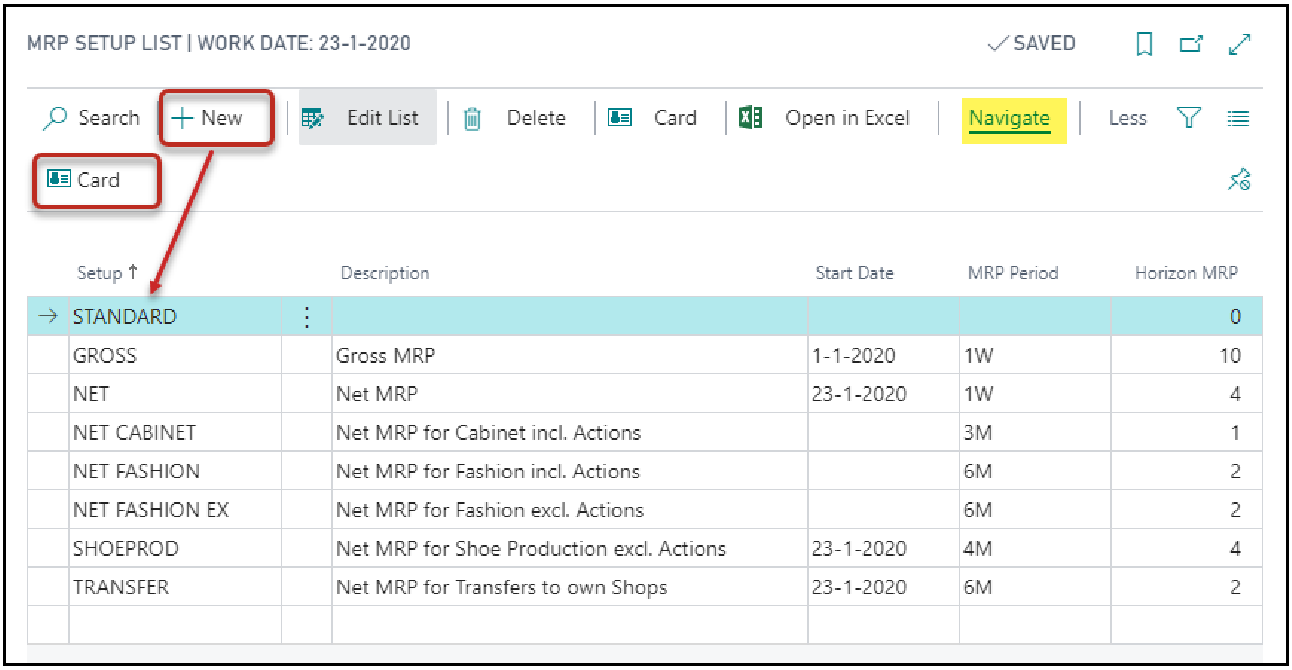
Here you can enter a Date Formula to be used calculating the **End Date** of the Production Order based on *Available Date*.

INFORMATION ITEM

Especially for Materials used in Bill of Materials, you can determine if a Master/Item is only for Information. In that case, you can enter a checkmark in this field, and the Master/Item will not be included in the MRP Calculation. This will overrule the content of the field **Include in MRP**.
This field can however also be set in specific Component Lines of a Bill of Material and in Production Lines itself.
You can i.e. think about bulk materials like pins that are used, but not actually bought based on demand. You simply buy a whole box when the previous box is half-full.

MRP SETUP

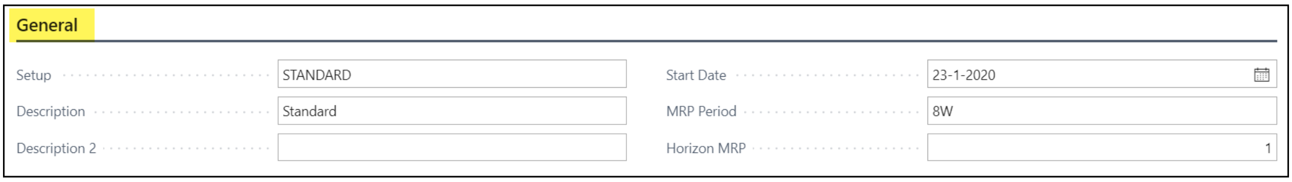
A multiple **MRP Setups** for the MRP Calculation can be created. You can maintain or create an **MRP Setup** via **Tell me** *MRP Setup List*



Setup	Description	Start Date	MRP Period	Horizon MRP
STANDARD				0
GROSS	Gross MRP	1-1-2020	1W	10
NET	Net MRP	23-1-2020	1W	4
NET CABINET	Net MRP for Cabinet incl. Actions		3M	1
NET FASHION	Net MRP for Fashion incl. Actions		6M	2
NET FASHION EX	Net MRP for Fashion excl. Actions		6M	2
SHOEPROD	Net MRP for Shoe Production excl. Actions	23-1-2020	4M	4
TRANSFER	Net MRP for Transfers to own Shops	23-1-2020	6M	2

To create/maintain a new MRP Setup click ***+ New***, enter a Code for the new MRP Setup (I.e.: *STANDARD*) and go to the Card via click ***Navigate***, click ***Card***

FASTTAB GENERAL



DESCRIPTION OF THE FIELDS:

SETUP

The code of the **MRP Setup**

DESCRIPTION

Here you can enter a **Description** for the **MRP Setup**

DESCRIPTION 2

Here you can enter a **Description 2** for the **MRP Setup**

START DATE

Here you can set the **Start Date** for the MRP Calculation. The **Set Start Date** field on the ***Parameters*** FastTab must be set to *Manually* to use this date.

MRP PERIOD

The **MRP Period** (Date Formula field) describes the period for which a demand should be created.

Example: *1W* is describing that all demand in a week is accumulated and one Order (Purchase Line, Production Order or Transfer Order) is created.

NOTE

If this field and the **Horizon** field are empty, the MRP Calculation is looking at the **MRP Period** field and the **Horizon** field on the Item Card for the individual Items included in the MRP Calculation if the **Calculation Method** in the **MRP Setup** is set to *By Item.*
If the field is filled in the **MRP Setup**, the **MRP Period** field and the **Horizon** field on the Item Card will be overruled.
If the field is not filled in the **MRP Setup** (or the Item), it will be taken from the **Inventory Setup** (FastTab ***Info and Prices***).

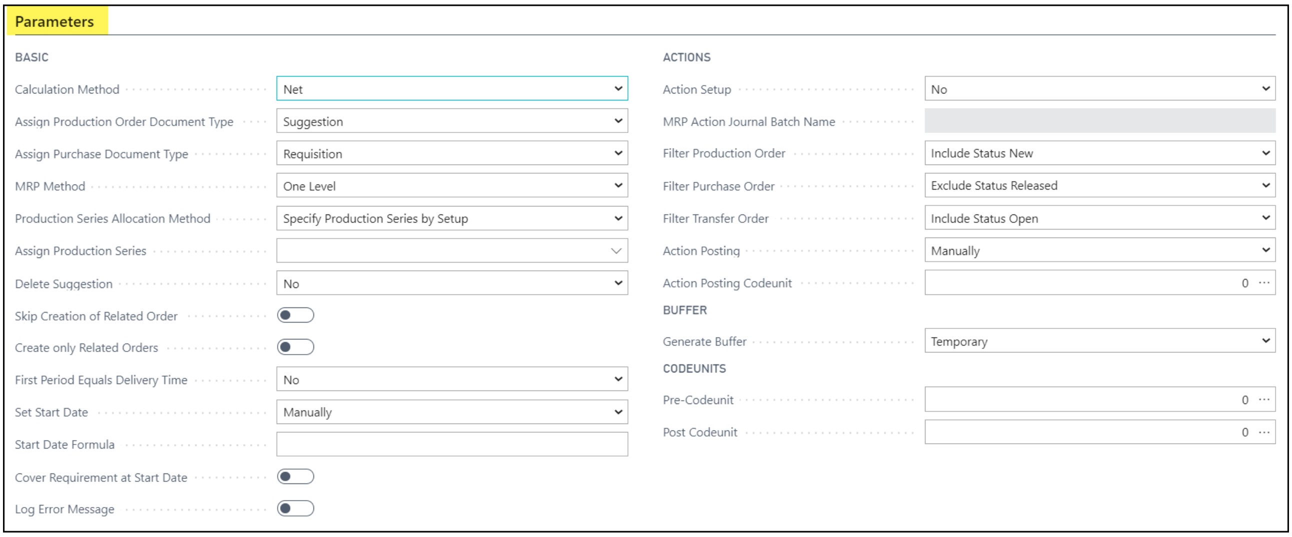
HORIZON

The **Horizon** describes how many **MRP Periods** to create orders for.
Example: *1W* in **MRP Period** and *4* in **Horizon** calculates the demand 4 weeks forward (with one Order (Line) per week).

NOTE

If this field and the **MRP Period** field are empty, the MRP Calculation is looking at the **MRP Period** field and the **Horizon** field on the Item Card for the individual Items included in the MRP Calculation if the **Calculation Method** in the **MRP Setup** is set to *By Item.*
If the field is filled in the **MRP Setup,** the **MRP Period** field and the **Horizon** field on the Item Card will be overruled.
If the field is not filled in the **MRP Setup** (or the Item), it will be taken from the **Inventory Setup** (FastTab ***Info and Prices***).

FASTTAB PARAMETERS



DESCRIPTION OF THE FIELDS:

CALCULATION METHOD

The choice of **Calculation Method** decides which method will be used in calculating the Quantities to Produce or Buy.
You can choose between the following three options:

Net	The quantity to be ordered will be set to **Maximum Inventory** reduced by the calculated quantity available. If **Maximum Inventory** is less than **Reorder Point** then the **Maximum**

	Inventory will be set to ***Reorder Point*** to calculate the total quantity that needs to be ordered**.** The field for **MRP Method** on the Item (or SKU) will be overruled.
Gross	The quantity to be ordered will be set to the exactly calculated demanded quantity. The calculated quantity will not be reduced by the quantity available. The field for **MRP Method, Maximum Inventory, Reorder Quantity** and **Reorder Point** on the Item (or SKU) will be overruled.
By Item	The **MRP Method** on the Item (or SKU) will be used.

NOTE

If you want to calculate the needed quantity to purchase, produce or transfer + solely based on **Reorder Point** (which needs to be a quantity <> *0*) and **Maximum Inventory**, and not based on existing Sales Orders and/or Production Component Lines, you need to set the **Calculation Method** to *By Item***.**

ASSIGN PRODUCTION ORDER DOCUMENT TYPE

The choice of **Assign Production Order Document Type** determines the **Document Type** for the created Production Orders.
You can choose between the following two options:

Suggestion	The MRP will create Production Orders with **Document Type** *Suggestion*
Order	The MRP will create Production Orders with **Document Type** *Order*

ASSIGN PURCHASE DOCUMENT TYPE

The choice of **Assign Purchase Document Type** determines the **Document Type** for the created Purchase.
You can choose between the following two options:

Requisition	The MRP will create Purchase Requisitions (Quotes)
Order	The MRP will create Purchase Orders

NOTE

Assign Production Order Document Type and **Assign Purchase Document Type** should be set to *Order* if you will use the **MRP Actions** (see Action Setup)**.** The action lines already give you an overview which can be changed, so when posting the MRP Actions, the system should immediately create Orders.

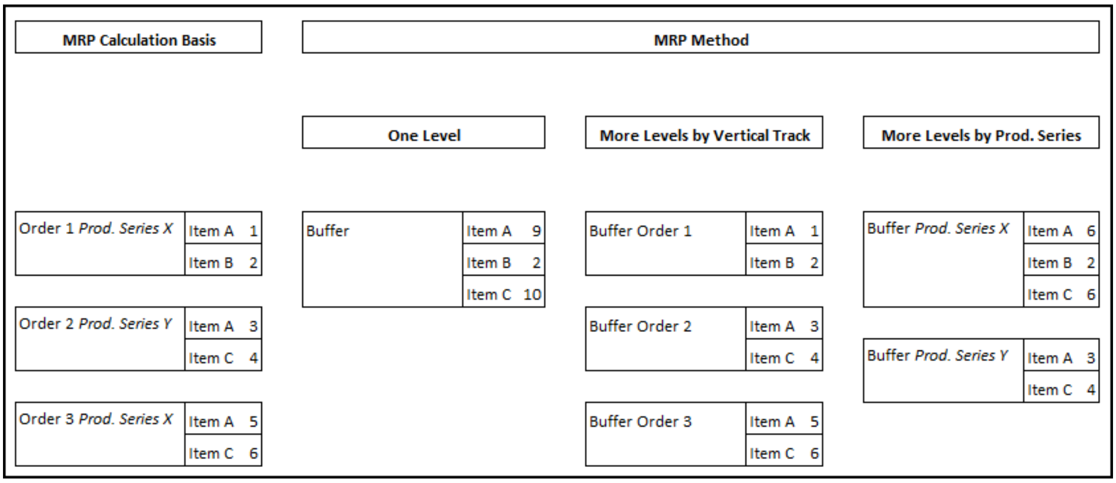
MRP METHOD

The choice of **MRP method** decides in which way the Items in the MRP Calculation are put in the Calculation Buffer and how the suggestions, quotes or orders are generated.
You can choose between the following three options:

One Level	All BOM's are exploded and inserted in a single Calculation Buffer in a sorting depending on the Low-Level Code. The Calculation Buffer is calculated with the lowest Low-Level Code first, and suggestions, quotes or orders are generated. With this method the suggestions, quotes or orders are not traceable
More Levels by Vertical Track	For each Top-Level Item the BOMs are exploded and inserted in a Calculation Buffer. The Calculation Buffer is calculated with the lowest Low-Level Code first, and suggestions, quotes or orders are generated. The same process is repeated for the next Item at Top-level. With this method the suggestions, quotes or orders are traceable to the Top-Level Item.

More Levels by Production Series	All BOMs for a specific Production Series are exploded and inserted in a single Calculation Buffer in a sorting depending on the Low-Level Code. The Calculation Buffer is calculated with the lowest Low-Level Code first, and suggestions, quotes or orders are generated. The same process is repeated for the next Production Series. With this method the suggestions, quotes or orders are traceable through the Production Series.

The illustration below shows the difference between the three methods:



PRODUCTION SERIES ALLOCATION METHOD

The choice of **Production Series Allocation Method** determines how the Production Series is filled in the new Quotes/Orders/Suggestions that might be created during the MRP Calculation.
You can choose between the following three options:

Specifying Production Series by Setup	The Value in the Field **Assign Production Series** is assigned to all Purchase Quotes/Orders, Production Suggestions/Orders, Production Collecting Orders or Transfer Orders created by the MRP Calculation.
Inherit Production Series from Start Level	The **Production Series** of the new Purchase Quotes/Orders, Production Suggestions/Orders, Production Collecting Orders or Transfer Orders that will be created by the MRP Calculation will be determined on bases of the **Production Series** in the original demand (that can be a Sales Line or the original Production Order)
Date Calculated	The created Quotes/Orders are assigned a Production Series where the **End Date** of the Production Series is at least 1 day before the demanded Date in the original Sales Line or Production Order.

ASSIGN PRODUCTION SERIES

If the field **Productions Series Allocation Method** is set to *Specifying Production Series by Setup,* you can choose the Production Series to assign to all Purchase Quotes/Orders, Production Suggestions/Orders and Production Collection Orders created by the MRP Calculation. If you calculate with a filter on Production Series, it will be common to use the same Production Series to assign to the Orders created.

DELETE SUGGESTIONS

The choice of **Delete Suggestions** determines what the MRP Calculation should do with already present Purchase Quotes or Production Suggestions.
You can choose between the following three options:

No	All Production Orders with **Document Type** *Suggestion* and all Purchase Requisitions (Quotes) will be maintained.
Production Series	All Production Orders with **Document Type** *Suggestion* and all Purchase Requisitions connected to the Production Series in the field **Assign Production Series** will be deleted before the MRP is initiated.
All	All Production Orders with **Document Type** *Suggestion* and all Purchase Requisitions will be deleted before the MRP is initiated.

SKIP CREATION OF RELATED ORDER

This field determines if the creation of Related Orders should be skipped during MRP Calculation.

	The MRP Calculation creates Related Orders on all Sales Lines and Production Lines before the calculation is carried out. The Related Orders will be created on all Items with **Replenishment Policy** is *Order* on the Item Card.
	No Related Orders will be created during the MRP Calculation. Only Orders already existing in the system will be calculated.

CREATE ONLY RELATED ORDERS

This field determines if the MRP Calculation should only create Related Orders based on Sales Lines and nothing else.

	The settings in **Skip Creation of Related Orders** are taken in consideration
	The MRP Calculation will stop after the Related Orders have been created, and no other demand calculation will take place. The Related Orders will be created on all Items with **Replenishment Policy** is *Order* on the Item Card.

FIRST PERIOD EQUALS DELIVERY TIME

This field determines if the first **MRP Period** should equal the **Lead Time** of the Item. In a situation where the Lead Time of an Item is less than the MRP Period there is a risk that multiple Orders can be created to cover the same need, as the Orders created in the first period could have an end date/receipt date later than the end date of the calculated period.

No	The Lead Time of the Item/Vendor is not taken in consideration.
Yes	The Lead Time of the Item/Vendor and the Production Time of the Item are taken in consideration, which means that first possible Receipt Date of Purchase or End Date of Production Order is calculated as TODAY + Lead Time of the Item. Search direction is Item, Vendor. If Multiple Horizons is used this Field should be set to *Yes*.

SET START DATE

This field determines how the **Start Date** of a Production Order/Suggestion is calculated or the **Order Date** of a Purchase Quote/Order.
You can choose between the following three options:

Manually	The Date is set via the field **Start Date** (on the FastTab ***General)***

Monday - Sunday	The Date of the Weekday is calculated on basis of the week for WORK DATE.
Date Calculated	The Date is calculated based on the field **Start Date Formula**.

START DATE FORMULA

This field is only used if **Set Start Date** is set to **Date Calculation**. The Date is calculated on basis of the WORK DATE.

COVER REQUIREMENT AT START DATE

This field determines if negative stock before the Start Date of the calculation should be included in the calculation or not.

	Negative stock before the **Start Date** of the MRP Calculation will be included in the Calculation
	Negative stock before the **Start Date** of the MRP Calculation will not be included in the Calculation

NOTE

If you want to calculate the Demand not based on Sales Orders, but based on the **Reorder Point** and **Maximum Inventory,** you need to have a checkmark in this field.

If you have a checkmark in this parameter and there is a Demand before the start date of the MRP Calculation, then it will create and order with a delivery date 1 MRP Period before the start date of the MRP Calculation

LOG ERROR MESSAGES

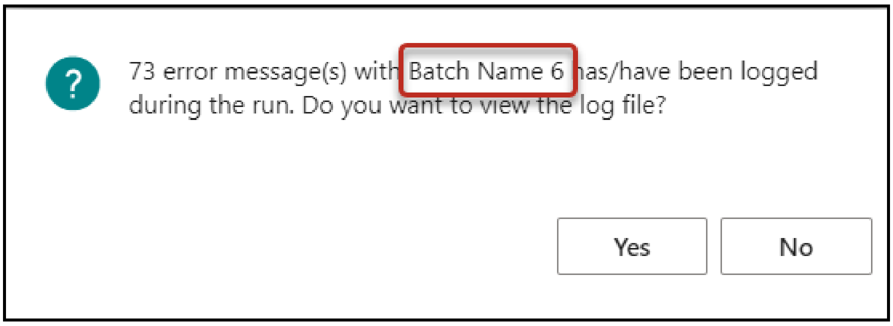
	The MRP Calculation stops if an error occurs
	The MRP Calculation continues if an error occurs, and an error is written in the Error Log. You need to check these errors and solve them.

NOTE

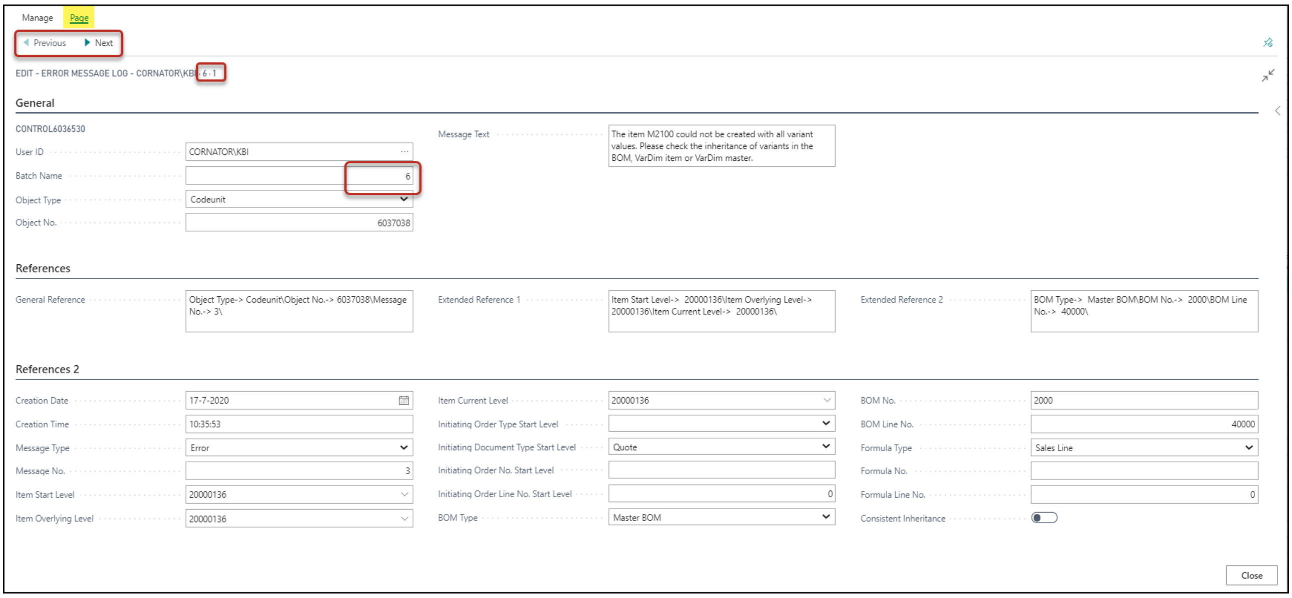
If **Log Error Messages** is set to *Yes,* you need to be created as User in the **User Setup** for the determination of a **Batch Name** for the error message based on the field **Batch Name Log Dialog.**

Do not set this field to *Yes* if customers are starting with TRIMIT; it could easily give error messages because of a wrong setup op Bill of Materials. In that case, it is much better to see the error immediately and stop the MRP Calculation, and therefore react on it right away.

If any errors exist during the MRP Calculation and the **Log Error Messages** was set to *Yes,* you can get a message. I.e.:

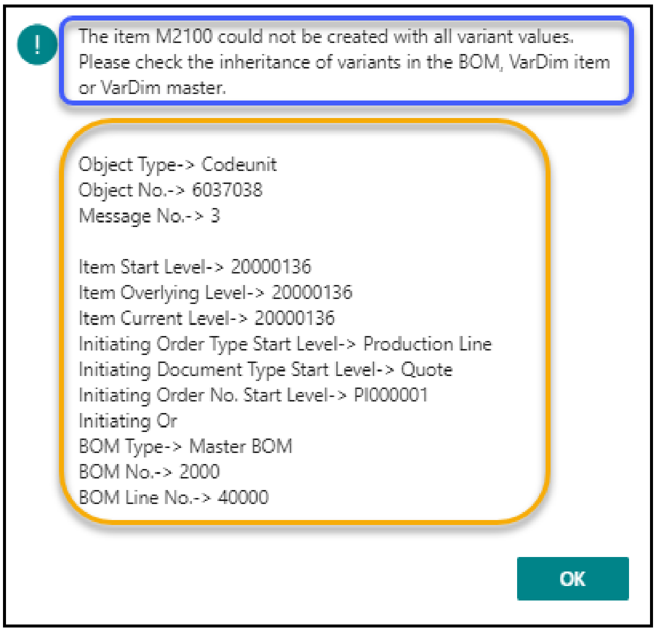


Clicking **Yes** will open the first error message of **Batch Name** is *6*:



Via click ***Page,*** click ***Previous*** or ***Next*** you can go through the 73 different error messages, and see all the details of every individual error message.

In this example (based on manipulated BOM for 2000) the system would still create a Line in the MRP Actions (based on the field **Action Setup** of the MRP Setup) for producing the Item *20000136*, but when you try to **Post** (execute) the Actions, you would still get the error message immediately.



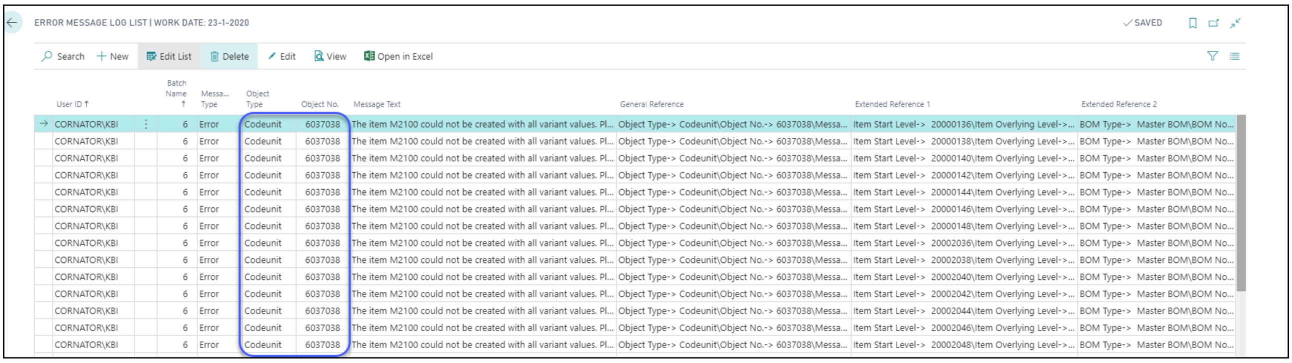
Click **OK**

The process for creating Production-/Purchase-/Transfer Orders will be canceled automatically.

NOTE

A normal user will probably only get the "blue-part" of the message. The "yellow-part" of the message above, is because the parameter **Message Level** in the **User Setup** was set to *Extended + Support.*

You can also look at all Error Messages that occur during the MRP Calculation via **Tell me** *Error Message Log List*. Only the lines with **Object Type** *Codeunit* and **Object No.** *6037308* are applicable for the MRP Calculation.



ACTION SETUP

The choice in this field decides if **MRP Actions Lines** must be created or not.
The Action Lines can be used to increase visibility of the status of Orders/Suggestions/Quotes already created and the stock, and to evaluate the suggested Quantity to order
A Calculation Buffer is created before the MRP Calculation really starts to calculate what is required containing the Production Orders, Purchase Orders and Transfer Orders in the system, where after the Orders are deleted temporary and the new MRP Calculation is carried out.
Hereafter a comparison of the pre- and post-situation is created and increase/decrease of demands for new orders or deleting of orders is evaluated. The results of the MRP Calculation with Actions are monitored in the page **MRP Actions** in the Navigation pane ***Departments/Production/Planning/Actions***.
An MRP Calculation with Actions must be called with an **MRP Action Journal Batch Name**, and the MRP Calculation must be started via the page **MRP Actions**
You can choose between the following three options:

No	No MRP Action Lines will be created. The MRP Calculation will create the new Purchase Quotes/Orders, Production Suggestions/Orders, Production Collecting Orders or Transfer Orders immediately.
Filter Production Series	Action Lines are created. Only Production Orders, Purchase Orders and Transfer Orders with the Production Series No. in the field **Filter Production Series** are included in the Calculation Buffer
All	Action Lines are created. All Production Orders, Purchase Orders and Transfer Orders are included in the Calculation Buffer, taking the choices in the fields **Filter Production Order, Filter Purchase Order** and **Filter Transfer Order** in consideration.

NOTE 1
If the field **Action Setup** is not filled with *No,* the MRP Setup can only be used in the page **MRP Actions.**

NOTE 2
The MRP Actions could roughly be compared with the Planning Worksheet of standard Business Central - which is not used within TRIMIT because of our own Production Module:
You will get a list with suggestions that you need to approve, before you can post the lines (carry out action message of standard Business Central).

MRP ACTION JOURNAL BATCH NAME

If you insert an **MRP Action Journal Batch Name** in this field, this Batch Name will be taken as the default Batch Name if you want to use the **MRP Actions.**

FILTER PRODUCTION ORDER

The choice in this field controls which Production Orders must be added in the Calculation Buffer.
You can choose between the following four options:

Include Status New	Only Production Orders with status *New* will be included. If changes are suggested to Production Orders with status *New* the field **Approve** in the MRP Action Lines will be set by default to *TRUE*.
Include Status New and Planned	Production Orders with status *New* and *Planned* will be included in the Calculation Buffer. If changes are suggested to existing Production Orders with status *New,* the field **Approve** in the MRP Action Lines will be set by default to *TRUE*. If changes are suggested to existing Production Orders with status *Planned* the field **Approve** in the MRP Action Lines will be set by default to *FALSE*. If the field **Action** for the MRP Action Line is specified as *New Order* or *Increase Order* the field **Sub-Action** will automatically be set by default as *Difference On New Order*.
Exclude Status Finished	All Production Orders beside the Production Orders with status *Finished* will be included in the Calculation Buffer. If changes are suggested to existing Production Orders with status *New* the field **Approve** in the MRP Action Lines will be set by default to *TRUE*. If changes are suggested to existing Production Orders with status *Planned,* the field **Approve** in the MRP Action Lines will be set by default to *FALSE*. If the field **Action** for the actual MRP Action Line is specified as *New Order* or *Increase Order* the field **Sub-Action** will automatically be set by default as *Difference On New Order*.
No Recalculation of Existing Orders	Existing Production Orders will be considered in the Calculation Buffer, but no changes will be suggested regarding Quantities or Dates. The new to be created Orders will all have the field **Approve** in the MRP Action Lines set by default to *TRUE*. Therefore, i.e. if the Quantity should be increased of an existing Production Order, the Actions Line will suggest creating a new Production Order for the increase or deleting existing Production Orders – because there is no demand – will also not be suggested.

FILTER PURCHASE ORDER

The choice in this field controls which Purchase Orders must be added in the Calculation Buffer.
You can choose between the following five options:

Exclude No. Printed > 0	Only Purchase Orders with *0* (zero) in the Purchase Header field **No. Printed** (FastTab **Misc. Param.**) are included. If changes are suggested for these Purchase Orders, the field **Approve** in the MRP Action Lines will be set by default to *TRUE*.
Include No. Printed > 0	All Purchase Orders are included. If changes are suggested to Purchase Orders with *0* (zero) in the Purchase Header field **No. Printed,** the field **Approve** in the MRP Action Line will be set by default to *TRUE*. If changes are suggested to Purchase Orders with higher value than *0* in the Purchase Header field **No. Printed,** the field **Approve** in the MRP Action Lines will be set by default to *FALSE*. If the field **Action** for the actual MRP Action Line is specified as *New Order* or *Increase Order* the field **Sub-Action** will automatically be set default as *Difference On New Order.*
Exclude Status Released	Only Purchase Orders with **Status** <> *Released* will be included.
Exclude Status (TRIMIT) Ordered	Only Purchase Orders with **Status (TRIMIT)** <> *Ordered* will be included.
No Recalculation of Existing Orders	Existing Purchase Orders will be considered in the Calculation Buffer, but no changes will be suggested regarding Quantities or Dates. The new to be created Orders will all have the field **Approve** in the MRP Action Lines set by default to *TRUE*. Therefore, i.e. if the Quantity should be increased of an existing Purchase Order, the Actions Line will suggest creating a new Purchase Order for the increase or deleting existing Purchase Orders – because there is no demand – will also not be suggested.

NOTE
TRIMIT Report (6036730) and TRIMIT's E-Mail Functionality does not have C/AL Code to set the field **No. Printed** on the Purchase Header.

FILTER TRANSFER ORDER

The choice in this field controls which Transfer Orders must be added in the Calculation Buffer.
You can choose between the following two options:

Include Status Open	Only Transfer Orders with status *Open* will be included. If changes are suggested to Transfer Orders with status *Open,* the field **Approve** in the MRP Action Lines will be set by default to *TRUE*.
No Recalculation of Existing Orders	Existing Transfer Orders will be considered in the Calculation Buffer, but no changes will be suggested regarding Quantities or Dates. The new to be created Orders will all have the field **Approve** in the MRP Action Lines set by default to *TRUE*. Therefore, i.e. if the Quantity should be increased of an existing Transfer Order, the Actions Line will suggest creating a new Transfer Order for the increase or deleting existing Transfer Orders – because there is no demand – will also not be suggested.

ACTION POSTING

The choice in this field determines how the posting of the Action Lines should take place for creating Production Orders, Purchase Orders and Transfer Orders after the MRP Actions Lines have been created.
You can choose between the following three options:

Manually	All MRP Action Lines must be posted manually.
Post Approved	Automatic posting of all MRP Action Lines marked **Approved** *TRUE*. MRP Actions Lines marked **Approved** *FALSE* must be posted manually. Production Orders, Purchase Orders and Transfer Orders will be created/modified with the document type as specified in the fields **Assign Production Order Document Type** and **Assign Purchase Document Type**, and the **Action** and **Sub-Action** choices.
Post All	Automatic posting of all MRP Action Lines no matter if it is marked **Approved** *TRUE* or *FALSE*. Production Orders, Purchase Orders and Transfer Orders will be created/modified with the document type as specified in the fields **Assign Production Order Document Type** and **Assign Purchase Document Type**, and the **Action** and **Sub-Action** choices.

ACTION POST CODEUNIT

If you add a Codeunit in this field, you can manipulate the created MRP Action Lines, before posting.
In that case, the Codeunit – Properties - **TableNo.** must be set to *6037305* (MRP Actions)

GENERATE BUFFER

You can determine how the Calculation Buffer should be created which controls, which Items and in which order (Low-Level Code) the Items should be calculated
You can choose between the following three options:

Temporary	The Buffer is created temporary. This is the default for this field.
Disc	The Buffer is written to disc (Table ***6037016 Production Line Buffer***)
No – Use Existing	An existing Buffer should be used (Table ***6037016 Production Line Buffer***)

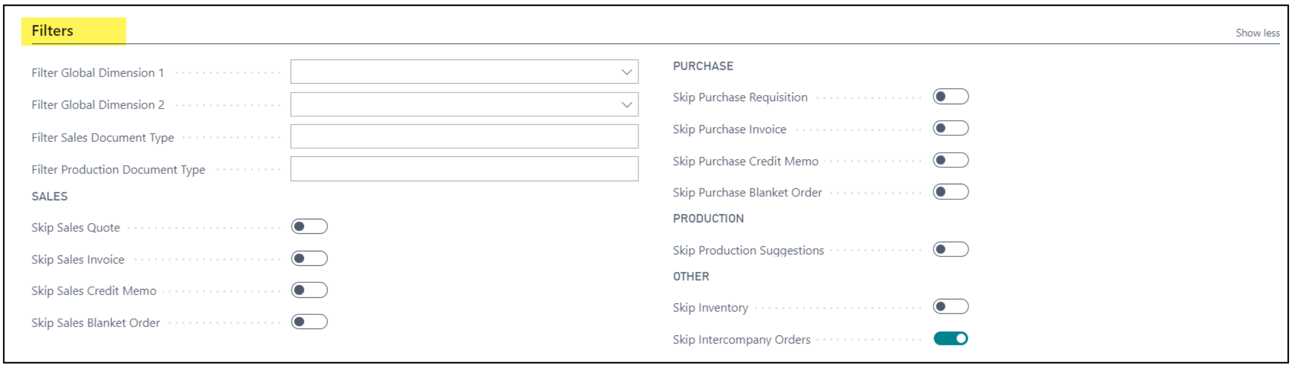
PRE CODEUNIT

If you add a Codeunit in this field, you can manipulate the MRP Calculation before it is initiated.
In that case, the Codeunit – Properties - **TableNo.** must be set to *6037307* (MRP Setup).

POST CODEUNIT

If you add a Codeunit Number in this field, you can manipulate the MRP Calculation after the calculation of the demand has been finished.
In that case, the Codeunit – Properties - **TableNo.** must be set to *6037307* (MRP Setup).

FASTTAB FILTERS



DESCRIPTION OF THE FIELDS:

FILTER GLOBAL DIMENSION 1 / 2

You can enter a filter for the **Global Dimension 1/2** field. This means that only Sales Lines, Purchase Lines, Production Orders, Production Lines and Inventory Entries will be considered for the demand calculation with this specific Global Dimension 1/2.

> **NOTE**
> Using these filters does acquire deep knowledge of the setup of the Global Dimensions 1 and 2, and of the consistent use of the Global Dimensions.

FILTER SALES DOCUMENT TYPE

If the Parameter **Available Date is Exact Date** in the Production Setup is set to *Yes,* you can enter a filter for the **Document Type** of Sales Orders from which the first Available Date is searched.
You can enter the Integers of the options for **Document Type** that are applicable:
0 = Quote, *1* = Order, *2*= Sales Invoice, *3* = Credit Memo, *4* = Blanket Order or *5*=Return Order.
If this filter is empty, the default is *1|2|3*

FILTER PRODUCTION DOCUMENT TYPE

If the Parameter **Available Date is Exact Date** in the Production Setup is set to *Yes,* you can enter a filter for the **Document Type** of Production Orders from which the first Available Date is searched
You can enter the Integers of the options for **Document Type** that are applicable:
0 = Suggestion or *1* = Order.
If this filter is empty, the default is *0|1* and then the field **Skip Production Suggestions** is taken into consideration.

SKIP SALES QUOTE

A checkmark means that Sales Quotes are excluded from the calculation

SKIP SALES INVOICE

A checkmark means that Sales Invoices are excluded from the calculation

SKIP SALES CREDIT MEMO

A checkmark means that Sales Credit Memos are excluded from the calculation

SKIP SALES BLANKET ORDER

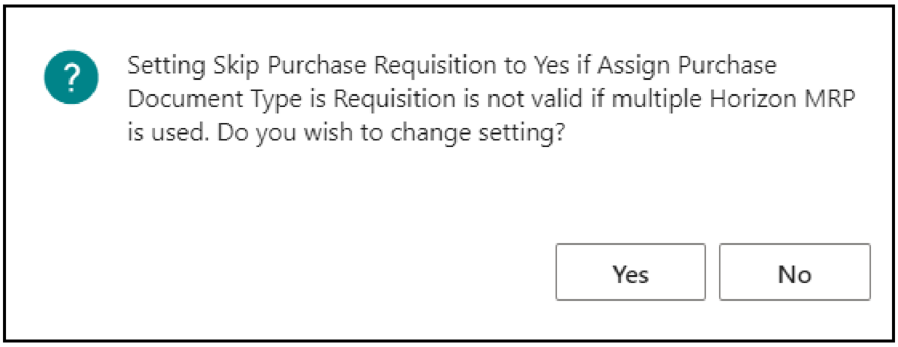
A checkmark means that Sales Blanket Orders are excluded from the calculation

SKIP PURCHASE REQUISITION

A checkmark means that Purchase Quotes are excluded from the calculation

If **Assign Purchase Document Type** is set to *Requisition* and the **Horizon MRP** is higher than *1,* this field must be , otherwise the Purchase Quotes already created by the calculation will be ignored by calculating the following periods.

If **Assign Purchase Document Type** is set to *Requisition* and this field is set to *,* you will get a message:



Only click **No**, if the **Horizon MRP** is *1* otherwise you need to click **Yes***.*

SKIP PURCHASE INVOICE

A checkmark means that Purchase Invoices are excluded from the calculation

SKIP PURCHASE CREDIT MEMO

A checkmark means that Purchase Credit Memos are excluded from the calculation

SKIP PURCHASE BLANKET ORDER

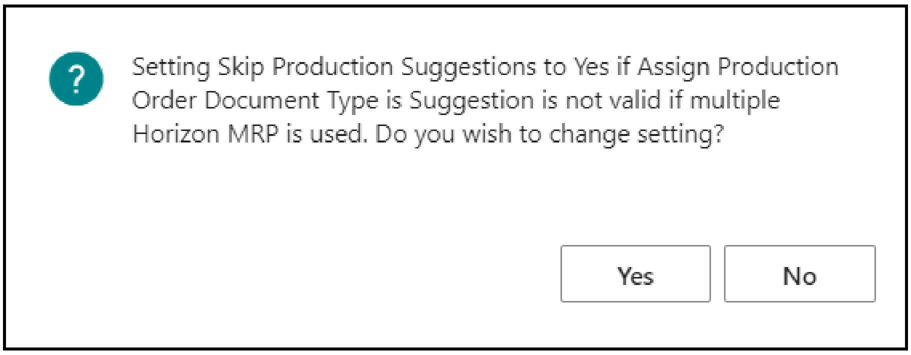
A checkmark means that Purchase Blanket Orders are excluded from the calculation

SKIP PRODUCTION SUGGESTION

A checkmark means that Production Orders of **Type** *Suggestion* are excluded from the calculation. If the Field **Filter Production Document Type** is filled, the content of this Field will be ignored.

If **Assign Production Order Document Type** is set to *Suggestion* and the **Horizon MRP** is higher than *1,* this field must be *FALSE*, otherwise the Production Orders with **Document Type** *Suggestion* already created by the calculation will be ignored by calculating the following periods.

If **Assign Production Order Document Type** is set to *Suggestion* and this field is set to *Yes,* you will get a message:



Only click **No**, if the **Horizon MRP** is *1* otherwise you need to click **Yes**.

SKIP INVENTORY

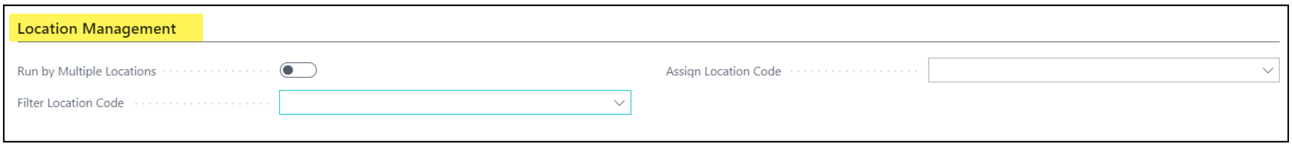
A checkmark means that existing Stock Quantities will be ignored when calculating the demand

SKIP INTERCOMPANY ORDERS

A checkmark means that all Sales- and Purchase Orders marked as *Intercompany* Orders are excluded from the calculation.
If the field **Include Company in Availability Check** in the Intercompany Relations is set to *TRUE,* this field should be *FALSE* otherwise unbalance between created Intercompany Purchase Orders and Intercompany Sales Orders are taken into consideration.

If no checkmark has been entered, the system will however still check the content of the **Include Company in MRP Calculation** in the Intercompany Relations. Only the Intercompany Orders from the companies with a check mark in the Intercompany Relations field **Include Company in MRP Calculation** will be considered.

FASTTAB LOCATION MANAGEMENT



DESCRIPTION OF THE FIELDS:

RUN BY MULTIPLE LOCATIONS

A checkmark in this field will create suggestions for the demand – based on the **Filter Location Code** – and will by default assign the Location as the Location it calculates. I.e. based on the Location Code of the Sales Lines. Therefore, it will calculate the demand per Location.

This also means that in connection with Transfers, the need for a Purchase or Production for the **From Location** of the Transfer will be calculated as well besides of course the demand for the **To Location**.

If no checkmark is entered in this field, the suggestions for all demands will simply be suggested without any Location – regardless in which Location the demand is, but you can assign one specific Location with the **Assign Location Code** field for all these demands.

NOTE 1
If you do make use of SKU Cards with a **Replenishment System** *Transfer*, the field **Run by Multiple Locations** should be set to *Yes*.
In that case, you also need to make sure, that the **Filter Location Code** at least has all the Locations involved in the Transfers to get a complete picture of all the demands.
In that case, the field **Assign Location Code** cannot be filled.

NOTE 2
For all companies with multiple Locations, this field should be set to .
It does not allow you to enter an **Assign Location Code** for the to be created Purchase- or Production Orders, as it by default assigns the Location Code as the Location that it calculates.

NOTE 3
Keep in mind that if you create demands per Location, and based on the Master, a Production Order will be created for the same Location as the Location in the Sales Line, also the Component Lines on that Production Order will have the same Location.

NOTE 4
The Location Card has an **MRP Run Priority** Field which makes it possible to control in which order Locations should be calculated (otherwise the order is Alphabetically on Location Code). The chapter Location explains the functionality.

FILTER LOCATION CODE

Only Items on the specified **Filter Location Code** will be included in the MRP Calculation.

ASSIGN LOCATION CODE

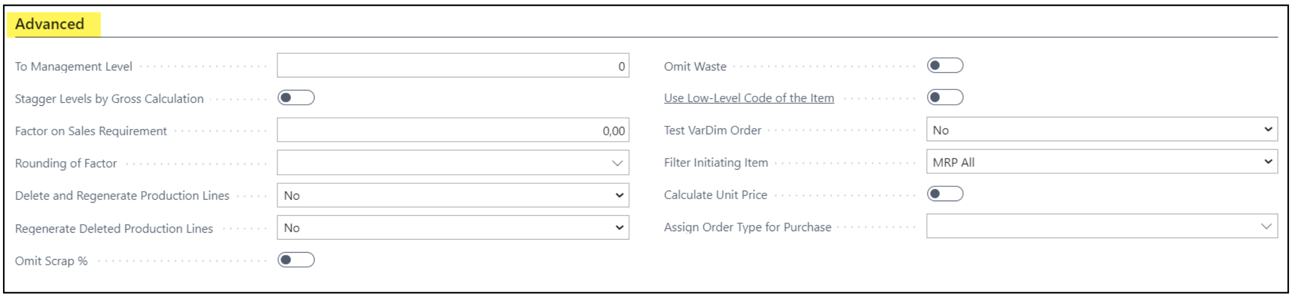
The requirements created in the MRP Calculation will all be assigned to the **Assign Location Code.**

This field cannot be entered if the field **Run by Multiple Locations** is set to .

NOTE 1
A **Filter Location Code** could cause problems, if Materials and Finished Goods are not in the same Location! In that case, the filter might only calculate the demands for Finished Goods, and not the required Materials for the Production Orders. You could however enter a filter with several Locations in it like *CW|BLUE.*
An **Assign Location Code** could cause problems, if Materials and Finished Goods are not in the same Location, the Location Code for the new Purchase Requisitions/Orders and Production Orders and Component Lines would be the same.
In these situations, it might be necessary to have different MRP Setups for your Finished Goods and Materials if you use the **Filter Location Code** and **Assign Location Code**. Different **To Management Levels** could accomplish this – if you have filled this in the individual Masters/Items.

NOTE 2
If you fill the **Assign Location Code,** you are also able to include the Inventory Parameters in the SKU Card as well.
I.e. The **Reorder Point** and **Maximum Inventory** will then be taken from the SKU Card of this **Assign Location Code**. If no SKU Card is available, it will of course take the fields from the Item.

FASTTAB ADVANCED



DESCRIPTION OF THE FIELDS:

TO MANAGEMENT LEVEL

All Items with a Management Level on the Item Card that equals to or is below the specified **To Management Level** will be included in the MRP Calculation.

I.e.: To Management Level = 5 ➔ *All Items with **Management Level** 0 to 5 is included in the MRP*

To Management Level *0* means: all Items regardless the **Management Level.**

STAGGER LEVELS BY GROSS CALCULATION

A checkmark in this field and the **Calculation Method** is *Gross;* the created orders will be staggered according to the **Start Date** of the Production Line or the **Shipment Date** of the Sales Line instead of the start date of the MRP Setup

FACTOR ON SALES REQUIREMENT

If the **Factor on Sales Requirement** is different from *0* (zero) then the calculated "Quantity on Sales Orders" will be multiplied with this factor in the calculation to calculate the demand.

ROUNDING OF FACTOR

The field **Rounding of Factor** is used together with the **Factor on Sales Requirement** and decides, how the "Quantity on Sales Orders" requirement multiplied with the **Factor on Sales Requirement,** will be rounded.

DELETE AND REGENERATE PRODUCTION LINES

With this field, you can determine if all created Related Orders should be deleted and regenerated before the MRP Calculation is performed.

To set this field to *Yes,* the field **Skip Creation of Related Orders** should be .

You can choose between the following two options:

No	Related Orders will be created for order-initiated Items on Sales Lines with empty Related Orders before the MRP Calculation.
Yes	All Related Orders will be deleted and regenerated before the MRP Calculation.

REGENERATE DELETED PRODUCTION LINES

This field is only in use if the MRP Calculation is run *By Sales Lines*

If the field **Delete and Regenerate Production Lines** is *Yes,* this field should be *No* as the lines are already regenerated. To set this field to *Yes,* the field **Skip Creation of Related Orders** should be .

If the parameter **Time for Regeneration of Related Orders** in the Production Setup is set to *MRP Run,* this field should be *Yes.* You can choose between the following two options:

No	Related Orders will be created for order-initiated Items on Sales Lines with empty Related Orders before the MRP Calculation.
Yes	Related Orders without Production Lines will be regenerated before the MRP Calculation.

OMIT SCRAP %

	The content of the field **Scrap %** on the Item Card /Item BOM will be used
	The content of the field **Scrap %** on the Item Card /Item BOM will be ignored

OMIT WASTE

	The content of the field **Process Waste** on the Item Card /Item BOM will be used
	The content of the field **Process Waste** on the Item Card /Item BOM will be ignored

USE LOW-LEVEL CODE OF THE ITEM

	The MRP Calculation uses the auto generated Low-Level Codes created during the MRP Calculation, before calculating the requirement in Low-Level Code sorting (Descending)
	The MRP Calculation uses the Low-Level Codes in the field **Low-Level Code** on the Item Card, before calculating the requirement in Low-Level Code sorting (Descending).

TEST VARDIM ORDER

The content of the field is only applicable is **Skip Creation of Related Order** is set to .
In that case, this field determines if the VarDim Order of a Sales Line with **Replenishment Policy** *Order,* and for which no Related Order has been created yet, should be tested.
If that test fails, you will get an error message and the MRP Calculation will abort.

No	No test of a VarDim Order will be executed upfront, but if an error occurs, only the VarDim Type for which a value is missing is mentioned in the error massage.
Yes	The VarDim Order will be tested and the message for an error will give more information to find the actual issue (like Sale Order/Sales Line).
Printed	The VarDim Order will only be tested if **No. Printed** in the Sales Header > *0*.

FILTER INITIATING ITEM

MRP All	The MRP Calculation will include all Items within filters.
MRP only Make-to-Stock	Only initiating Items with **Replenishment Policy** = *Inventory* on the Item Card are included in the MRP Calculation
MRP only Make-to-Order	Only initiating Items with **Replenishment Policy** = *Order* on the Item Card are included in the MRP Calculation

NOTE

If you have set the **Skip Creation of Related Orders** to , it might be helpful to set **Filter Initiating Item** to *MRP only Make-to-Stock*.

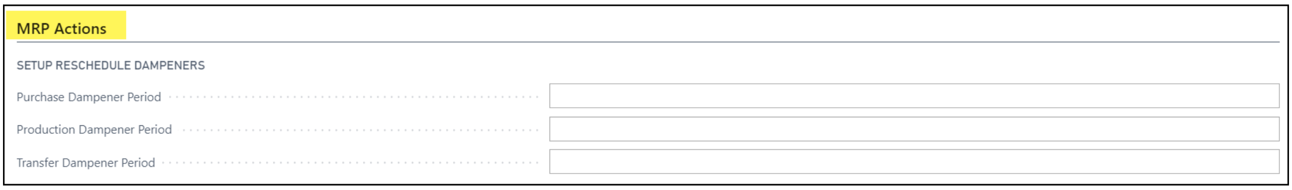
CALCULATE UNIT PRICE

This field is not in use and will be deleted in a next release/build.

ASSIGN ORDER TYPE FOR PURCHASE

If the MRP Calculation creates Purchase Requisitions or Purchase Orders, the **Order Type** will automatically be filled with the content of this field **Assign Order Type for Purchase.**

FASTTAB MRP ACTIONS



DESCRIPTION OF THE FIELDS:

PURCHASE/PRODUCTION/TRANSFER DAMPENER PERIOD

In these fields, you can enter a Date Formula like *2D, 1W,* etc.
Based on a calculated date for the demand, this dampener will add the demand to an already created Order if the requested date is within this Dampener Period.
This is especially important if the Parameter **Available Date is Exact Date** in the Production Setup has been set to *Yes.*

I.e. based on a Sales Order the MRP Calculation comes with a **Start Date** for a Production Order of *20-02-20* For another Sales Line it would be *25-02-20*. If **Available Date is Exact Date** is set to *Yes,* this would result in two Production Orders. However, if the **Production Dampener Period** was set to *1W*, these two quantities would be summarized on the same Production Order with the **Start Date** *20-02-20*.

You can also think about filling these Dampeners in case you run the MRP Calculation several times after each other (i.e. with different filters or different MRP Setups):
In case you run the MRP Calculations several times, you might want to be able to add Lines to existing Purchase Orders, Production Orders and/or Transfer Orders instead of deleting Orders and recreating them again with slightly different quantities.

Therefore, if you fill the Dampener the system will not suggest deleting and creating a new order if it finds an existing Order in the dampener period BEFORE the wanted Receipt/End Date., but it will instead suggest an increase of the existing Order.

MRP LIMITATION

MRP Limitations is an extension to the **Posting** function (Carry Out Action Message) on the **MRP Actions**, which makes it possible to create **Production Collecting Orders** via the MRP Calculation and to create **Purchase Orders** in a more flexible way.
It has no influence on **Transfer Orders** that should be created during the MRP Calculation.

MRP LIMITATIONS | WORK DATE: 6-9-2020 ✓SAVED

Search + New Edit List Delete Open in Excel

Type ↑	Limitation Code ↑	Description	Filter Master No.	Filter Item No.	Filter Group Master	Filter Vendor	Filter Location Code	Design Filter	Item Group Filter	Gender Filter	Item Statistics Group 4 Filter	Item Statistics Group 5 Filter	Filter Item Category Code	Brand Filter	Season Filter	Filter Prod... Series	Order per Avail. Date	Order per Production Series	Order per Master	Order per Location	Order per MRP Responsible	Order per VarDim Y-Axis	Order per VarDim X-Axis	Order per Group Master
Production Collecting Order	3000	PCO per Master Chair	30*					0	0	0	0	0					☐	☐	☑	☑	☐	☐	☐	☐
Production Collecting Order	M31	PCO per Master Table Top	M31*					0	0	0	0	0					☐	☐	☑	☑	☐	☐	☐	☐
Production Collecting Order	M32	PCO per Master Sofa Parts	M32*					0	0	0	0	0					☐	☐	☑	☑	☐	☐	☐	☐
Production Collecting Order	M33	PCO all Cabinet Materials	M33*					0	0	0	0	0					☐	☐	☐	☑	☐	☐	☐	☐
Production Collecting Order	M39*	PCO per Master Furniture Mat.	M39*					0	0	0	0	0					☐	☐	☑	☑	☐	☐	☐	☐
Production Collecting Order	SHOE	PCO all Shoes						0	0	0	0	0		SHOES			☐	☑	☐	☑	☐	☐	☐	☐
Purchase	M20	Order for all Fabrics						0	910	0	0	0					☐	☐	☐	☑	☑	☐	☐	☐
Purchase	M21	Order for all Leathers						0	920	0	0	0					☐	☐	☐	☑	☑	☐	☐	☐

The MRP Limitations will be used when posting the MRP Actions and are only applicable for SKUs or Items with **Replenishment Policy** is *Inventory*.
You cannot select a specific MRP Limitation when posting. The posting of the MRP Actions will go through the different MRP Limitation Codes and create Production Collecting Orders and/or Purchase Requisitions/Orders according the filters and the **Order per** fields of the MRP Limitations and the MRP Setup.
Therefore, it is very important that the content of every individual MRP Limitation Code is build up according a hierarchy that makes sense.

If the **Replenishment Policy** of the SKUs or Items on the MRP Action Lines is *Order,* the posting will be executed according to the standard TRIMIT rules:
Purchase Requisitions/Orders will be created per Vendor, MRP Responsible, Location and Prod. Series.
Production Orders will be created for all individual Items, and no Production Collecting Orders will be created.

Transfer Orders will simply be created per **Transfer from Code** + **Transfer to Code** + **Transfer in Transit Code** in the MRP Action Lines and will not be influenced by the MRP Limitations.
These fields are not shown in the Page of the ***MRP Actions*** (*6037308*), but are in the Table ***MRP Action*** *(6037305)*

NOTE
If a specific demand for an Item in a specific Location Code would not be in the filters of the MRP Limitations, the MRP Calculation will create Purchase Requisitions/Orders according the standard routine (per Vendor, MRP Responsible, Location Code, Production Series) and only Production Orders (and no Production Collecting Orders)

LIMITATION TYPE: PRODUCTION COLLECTING ORDER

This **Type** makes it possible to create **Production Collecting Orders** when posting the MRP Actions for SKUs or Items with **Replenishment Policy** is *Inventory*.
The Production Collecting Lines created via the posting are not related to Sales Lines, and no records will be created in the **Prod. Collecting Relation** table.
If the **Replenishment Policy** is *Order*, the MRP Limitations will be disregarded when posting the MRP Action Lines.

Multiple MRP Limitation Codes can be set up in a hierarchy deciding how the Items must be assigned to the same Production Collecting Order depending on several **Filter** fields.
The direction of the search on the MRP Limitation Codes is the key of the table:
Type + Limitation Code.

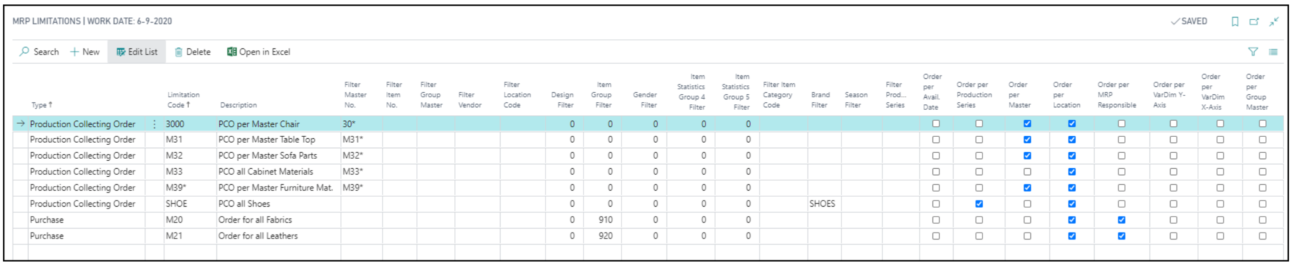
Besides the Production Collecting Orders that will be created, also all the individual Production Orders will already be created as well for every Line in the Production Collecting Order.
If an MRP Action Line/Item is not found in any Filter combination of the MRP Limitation Codes, the posting of the Action Lines will be executed according to the standard TRIMIT code: No Production Collecting Order will be created; only the individual Production Orders.

LIMITATION TYPE: PURCHASE

This **Type** makes it possible to create Purchase Requisitions/Orders when posting the MRP Actions for SKUs or Items with **Replenishment Policy** is *Inventory* by combining specific Items on the same Purchase Requisition/Order.
Using the MRP Limitation Code makes it possible to overrule the TRIMIT standard creation of Purchase Orders via the MRP Calculation, which has forced creation of Orders (or Requisition) per Vendor, MRP Responsible (from the Item), Production Series (from the Sales Lines) and Location (from the Sales Lines and/or Component Lines).
If the **Replenishment Policy** is *Order*, the MRP Limitations will be disregarded when posting the MRP Action Lines.

Multiple MRP Limitation Codes can be set up in a hierarchy deciding how the Items must be assigned to the same Purchase Order depending on several **Filter** fields.
The direction of the search on the MRP Limitation Codes is the key of the table:
Type + Limitation Code.
If an MRP Action Line/Item is not found in any Filter combination of the MRP Limitation Codes, the Posting of the Action Lines will be done according to the standard TRIMIT code: Per Vendor, MRP Responsible, Production Series and Location.

You can find the **MRP Limitations** via **Tell me** *MRP Limitations*



MRP LIMITATIONS | WORK DATE: 6-9-2020

Type	Limitation Code	Description	Filter Master No.	Filter Item No.	Filter Group Master	Filter Vendor	Filter Location Code	Design Filter	Item Group Filter	Gender Filter	Item Statistics Group 4 Filter	Item Statistics Group 5 Filter	Filter Item Category Code	Brand Filter	Season Filter	Filter Prod... Series	Order per Avail. Date	Order per Production Series	Order per Master	Order per Location	Order per MRP Responsible	Order per VarDim Y-Axis	Order per VarDim X-Axis	Order per Group Master
Production Collecting Order	3000	PCO per Master Chair	30*					0	0	0	0	0					☐	☐	☑	☑	☐	☐	☐	☐
Production Collecting Order	M31	PCO per Master Table Top	M31*					0	0	0	0	0					☐	☐	☑	☑	☐	☐	☐	☐
Production Collecting Order	M32	PCO per Master Sofa Parts	M32*					0	0	0	0	0					☐	☐	☑	☑	☐	☐	☐	☐
Production Collecting Order	M33	PCO all Cabinet Materials	M33*					0	0	0	0	0					☐	☐	☐	☑	☐	☐	☐	☐
Production Collecting Order	M39*	PCO per Master Furniture Mat.	M39*					0	0	0	0	0					☐	☐	☑	☑	☐	☐	☐	☐
Production Collecting Order	SHOE	PCO all Shoes						0	0	0	0	0		SHOES			☐	☑	☐	☑	☐	☐	☐	☐
Purchase	M20	Order for all Fabrics						0	910	0	0	0					☐	☐	☐	☑	☑	☐	☐	☐
Purchase	M21	Order for all Leathers						0	920	0	0	0					☐	☐	☐	☑	☑	☐	☐	☐

DESCRIPTION OF THE FIELDS:

TYPE

You need to choose which Type of **MRP Limitation Code** you want to enter.
You can choose between the following two options:

Production Collecting Order	This **Type** is applicable for MRP Action Lines with the **Type** *Production Order* and for which the Item has **Replenishment Policy** *Inventory.* In this case, **Production Collecting Orders** will be created based on the **Filter** fields and the **Order per** fields.
Purchase	This **Type** is applicable for MRP Action Lines with the **Type** *Purchase Order* and for which the Item has **Replenishment Policy** *Inventory.* In this case, **Purchase Orders** will be created based on the **Filter** fields and the **Order per** fields.

LIMITATION CODE

Code for this MRP Limitation Line

DESCRIPTION

Description for this MRP Limitation Code

Now you can enter the **Filter** fields and the **Order per** fields:

FILTER FIELDS

These Filter fields can be used to determine what can be combined on a separate Purchase Requisition/Order or Production Collecting Order.
If you do not set any Filters all Items will be combined on separate Purchase Requisitions/Orders or Production Collecting Orders according the **Order per** Fields.

Filter Master No.	You can enter a Filter on the Masters that will be checked with the field **Master** No. in the MRP Action Line.
Filter Item No.	You can enter a Filter on the Items that will be checked with the field **Item No.** in the MRP Action Line.
Filter Group Master	You can choose **one** specific Group Master that will be checked with the field **Group Master Code** in the Item of the MRP Action Line.
Filter Vendor No.	You can enter **one** specific Vendor that will be checked with the field **Replacement Buy-from Vendor No. (Temp)** in the MRP Action Line.
Filter Location Code	You can enter a Filter on the Locations that will be checked with the field **Assign Location Code** in the MRP Action Line.

Filter Statistics Group (Design)	You can choose **one** specific Item Statistics Group that will be checked with the field **Item Statistics Group** in the Item of the MRP Action Line.
Filter Item Statistics Group 2 (Item Group)	You can choose **one** specific Item Statistics Group 2 that will be checked with the field **Item Statistics Group 2** in the Item of the MRP Action Line.
Filter Item Statistics Group 3 (Gender)	You can choose **one** specific Item Statistics Group 3 that will be checked with the field **Item Statistics Group 3** in the Item of the MRP Action Line.
Filter Item Statistics Group 4	You can choose **one** specific Item Statistics Group 4 that will be checked with the field **Item Statistics Group 4** in the Item of the MRP Action Line.
Filter Item Statistics Group 5	You can choose **one** specific Item Statistics Group 5 that will be checked with the field **Item Statistics Group 5** in the Item of the MRP Action Line.
Filter Item Category Code	You can choose **one** specific Item Category Code that will be checked with the field **Item Category Code** in the Item of the MRP Action Line.
Filter Global Dimension Code 1 (Brand Code)	You can choose **one** specific Global Dimension Code 1 (Brand Code) that will be checked with the field **Global Dimension Code 1 (Brand Code)** in the Item of the MRP Action Line.
Filter Global Dimension Code 2 (Season Code)	You can choose **one** specific Global Dimension Code 2 (Season Code) that will be checked with the field **Global Dimension Code 2 (Season Code)** in the Item of the MRP Action Line.
Filter Production Series	You can enter **one** specific Production Series that will be checked with the field **Production Series** in the MRP Action Line.

NOTE

The **Filter Global Dimension 1** and **Filter Global Dimension 2** are checked with the corresponding fields in the Item – even if you might have changed these Dimensions in individual Sales Lines!!!

ORDER PER

These **Order per** fields determine what can be combined on a single Purchase Requisition/Order or Production Collecting Order.

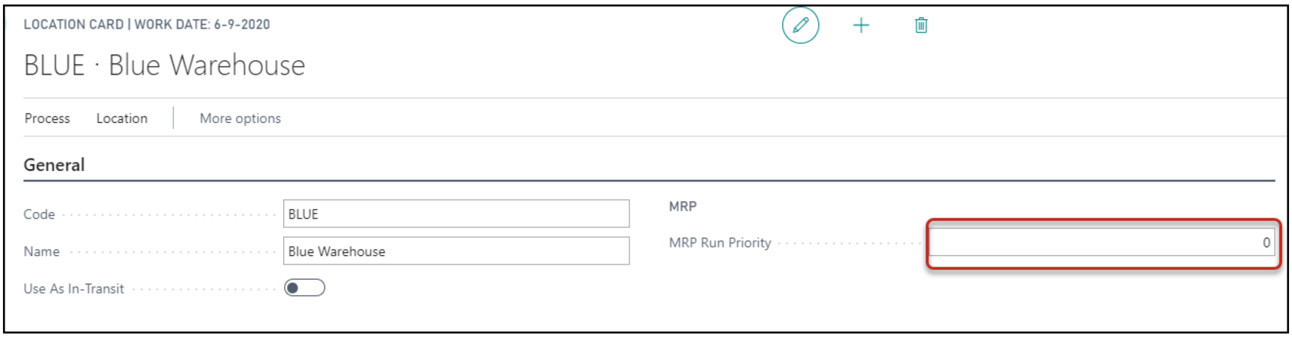
Not setting any **Order per** fields means:

For **Type** *Purchase* that Purchase Requisitions/Orders will be created per Vendor, MRP Responsible, Location Code and Production Series.

For **Type** *Production Collecting Order,* that all MRP Action Lines with **Type** *Production Order* will be on one big Production Collecting Order.

Order per Available Date	For every **Replacement Expected Receipt Date** in the MRP Action Lines with **Type** *Purchase* a separate Purchase Requisition/Order will be created. For every **Replacement Available Date** in the MRP Action Lines with **Type** *Production Collecting Order* a separate Production Collecting Order will be created.
Order per Production Series	For every **Production Series** in the MRP Action Lines a separate Purchase Requisition/Order or Production Collecting Order will be created. For **Type** *Purchase,* the default is ☑ .
Order per Master	For every **Master** in the MRP Action Lines a separate Purchase Requisition/Order or Production Collecting Order will be created.
Order per Location	For every **Location** in the MRP Action Lines, a separate Purchase Requisition/Order or Production Collecting Order will be created. For **Type** *Purchase,* the default is ☑ .
Order per MRP Responsible	For every **MRP Responsible** in the Item of an MRP Action Lines a separate Purchase Requisition/Order or Production Collecting Order will be created. For **Type** *Purchase,* the default is ☑ .
Order per VarDim Y-Axis	For every **VarDim Y-Axis** (i.e. Color) in the MRP Action Lines a separate Purchase Requisition/Order or Production Collecting Order will be created.
Order per VarDim X-Axis	For every **VarDim X-Axis** (i.e. Size) in the MRP Action Lines a separate Purchase Requisition/Order or Production Collecting Order will be created.
Order per Group Master	For every **Group Master** in the MRP Action Lines a separate Purchase Requisition/Order or Production Collecting Order will be created.

LOCATION



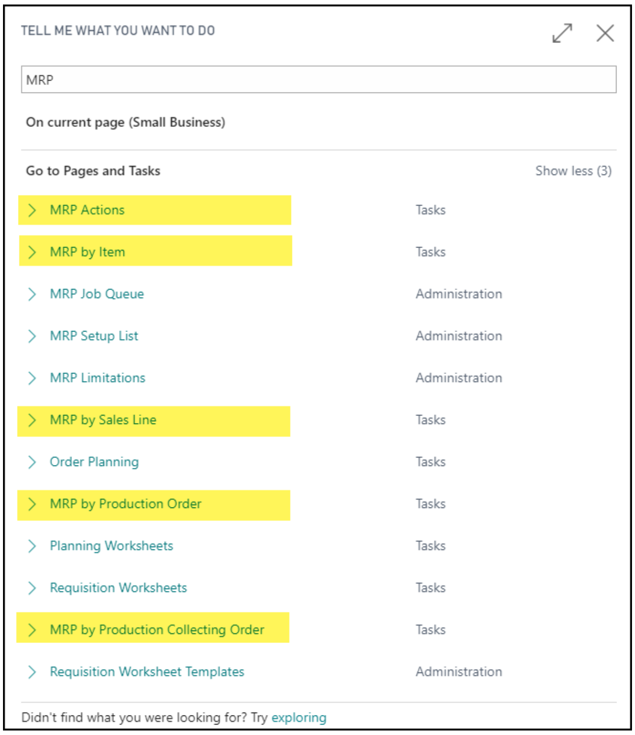
If you have SKU Cards with **Replenishment System** *Transfer,* the MRP Calculation can create Transfer Orders, but also to create Purchase Requisitions/-Orders or Production Orders for the **From Locations** of these Transfers.

In that case, you need to fill the **MRP Run Priority** in the Locations involved to make sure that first the demand on the **To Locations** is calculated, before the demand on the **From Locations.**
The **From Location** should have a higher number (lower priority) filled as the **To Location** (higher priority).

I.e. if **SHOP1** and **SHOP2** are transferred from **CW** to fulfill their demand, you could set it up as follows:

- **SHOP1** **MRP Run Priority** *1*
- **SHOP2** **MRP Run Priority** *1*
- **CW** **MRP Run Priority** *5*

RUNNING MRP CALCULATION



THE MRP CALCULATION HAS 5 MAIN ENTRANCES

Regardless which of the five you choose, the MRP Calculation will **first** create or delete/regenerate **Related Orders** for all the filtered Sales Lines with **Replenishment Policy** *Order*.
Second, it will calculate the demands for the Items (*By Items*), Items on Sales Lines (*By Sales Lines*), Items on Production Orders (*By Production Orders*) or Items on Production Collection Order Lines (*By Production Collection Order*) to create (or propose by using the MRP Actions) the new Orders.

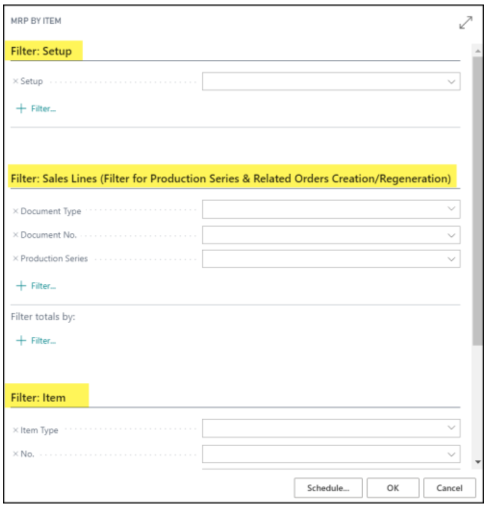
BY ITEMS

Uses **Sales Line** table filters to determine for which Sales Lines with **Replenishment Policy** *Order* a Related Order should be created or deleted/regenerated. This is only used if **Skip Creation of Related Order** in chosen MRP Setup is set to .

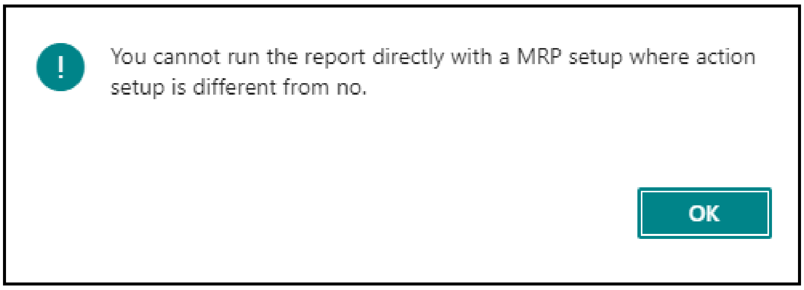
Uses **Item** table filters to determine for which Items the MRP Calculation should take place.
These filters have however no effect on the creation of Related Orders!

The BOM is unfolded for all the Items involved, which means that all Items **Include in MRP** set to on underlying levels are also included in the MRP Calculation.

The outcome will right away be the Purchase Requisitions/Orders, Production Orders and Transfer Orders. However, you cannot influence how the Items will be combined on the Orders, and no Production Collecting Orders will be created, only single Production Orders: **no influence of the MRP Limitations**!



On the FastTab **Setup,** you can set filters for all the fields of the MRP Setups.
It is mandatory to enter a **Setup.**
You can only choose an MRP Setup with **Action Setup** is *No*, otherwise, you will get an error message when the MRP Calculation starts:



On the FastTab **Sales Lines (Filters for Production Series & Related Orders Creation/Regeneration),** you can set filters for all the fields of the Sales Lines for the creation or deletion/regeneration of the Related Orders. This is only used if **Skip Creation of Related Order** in chosen MRP Setup is set to .

On the FastTab **Items,** you can set the filters for all the fields of the Items; these filters can really reduce the time of the MRP Calculation because for these Items he will run the total demand calculation.
You need to keep in mind, that these filters are only applicable for Masters/Items with **Replenishment Policy** is *Inventory,* and only for the Masters/Items on the Top Level – so not for Components in the BOM's.

You can get Purchase Requisitions/Orders, Production Orders or Transfer Orders for Items that do not fit your Item filters: The filters only apply to the top-level.
Bill of Materials of Items within the filters will be unfolded, and the MRP Calculations will calculate the demand for these Component Items as well if **Include in MRP** set to .
You could prevent this by using the **To Management Level** in the **MRP Setup.** This also implies that you have setup several **Management Levels** and have entered them in the Master Cards (FastTab ***Misc.***)

If the field **Run Multiple Locations** in the **MRP Setup** is set to **,** the MRP Calculation will calculate the demand per Location and therefore create separate Orders (at least) per Location.
So, not separate Order Lines in the same Order, but separate Orders!

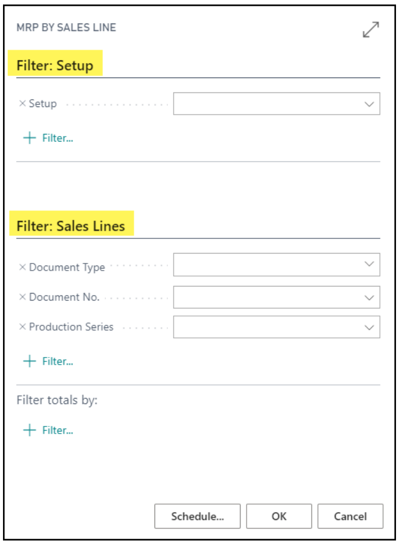
NOTE
A filter on the FastTab ***Sales Lines*** is only meant for the creation/regeneration of Related Orders.
For the MRP Calculation itself, it will still try to create temporary BOMs for all (configurable) Items within the filters of FastTab ***Items.*** In case these are configurable Items, errors might occur, because the system is missing the VarDim Order information for these Items.

BY SALES LINES

Uses **Sales Lines** table filters to determine for which Items the MRP Calculation should take place.

In this case, it also filters the Sales Lines for which Related Order will be created or deleted/regenerated – but only a filter on the **Document Type** will be regarded in this situation – so not a filter on the **No.**

The BOM is unfolded for the Inventory Initiated Items and Related Orders can be created for Order Initiated Items, which means that also all Items marked for MRP on underlying levels are included in the MRP Calculation.
After the Calculation Buffer is created, the Items are calculated in Low-Level Code order (highest level first).



It is mandatory to choose an MRP **Setup** with the field **Action Setup** set to *No.*

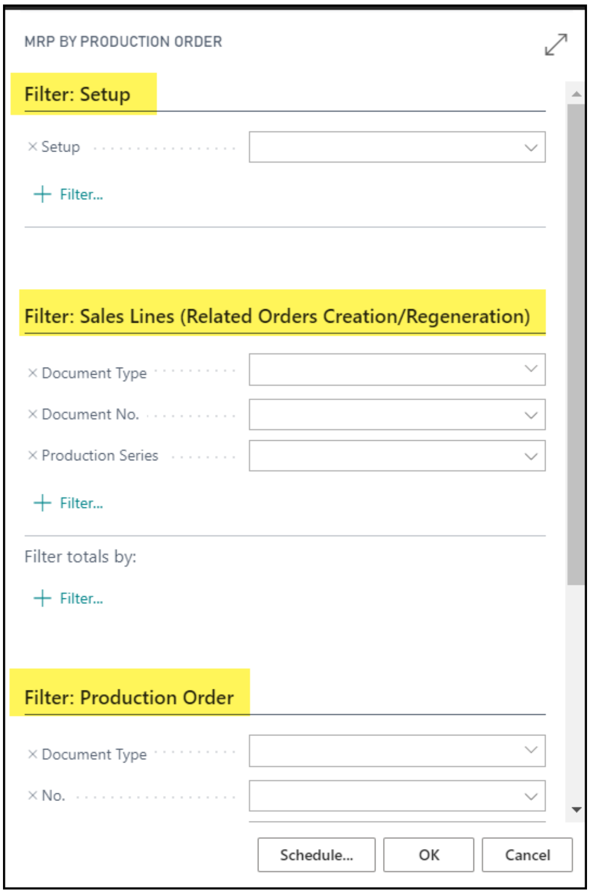
Outcome is comparable with the functionality of **MRP By Items** (so also **No influence of the MRP Limitations**); the starting point of the calculation is however completely different.
The system will however not only calculate the sold quantities based on these filtered Sales Lines!
The filters on the Sales Lines only determine for which Items the MRP Calculation should take place – as Items of the highest level.
As mentioned in By Items you can also get Orders based on the Components of the BOMs of these Items.

BY PRODUCTION ORDERS

Uses **Sales Line** table filters to determine for which Sales Lines with **Replenishment Policy** *Order* a Related Order should be created or deleted/regenerated. This is only used of **Skip Creation of Related Order** in chosen MRP Setup is set to .

Uses **Production Order Header** table filters to determine for which Items the MRP Calculation should take place.

The BOM is unfolded for the Inventory Initiated Items and Related Orders can be created for Order Initiated Items, which means that all Items with **Include in MRP** set to on underlying levels are also included in the MRP Calculation.
After the Calculation Buffer is created, the Items are calculated in Low-Level Code order (highest level first).



It is mandatory to choose an MRP **Setup** with the field **Action Setup** set to *No.*

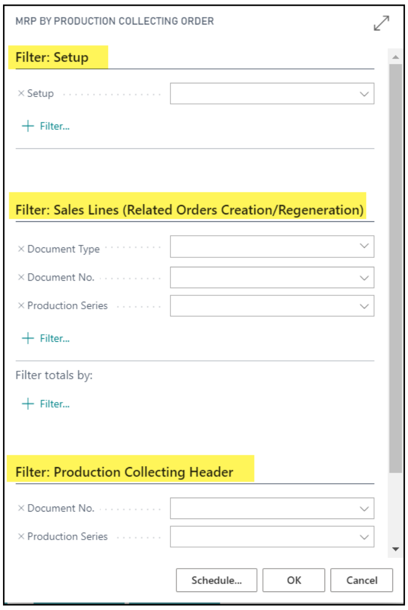
Outcome is comparable with the functionality of **MRP By Items** (so also **No influence of the MRP Limitations**); the starting point of the calculation is however completely different.
The filters on the Production Order only determine for which Items the MRP Calculation should take place – as Items of the highest level.
As mentioned in By Items you can also get Orders based on the Components of the BOMs of these Items.

BY PRODUCTION COLLECTING ORDERS

Uses **Sales Line** table filters to determine for which Sales Lines with **Replenishment Policy** *Order* a Related Order should be created or deleted/regenerated. This is only used of **Skip Creation of Related Order** in chosen MRP Setup is set to .

Uses **Production Collecting Order Header** table filters to determine for which Items the MRP Calculation should take place.

The BOM is unfolded for the Inventory Initiated Items and Related Orders can be created for Order Initiated Items, which means that all Items marked for MRP on underlying levels are also included in the MRP Calculation.
After the Calculation Buffer is created, the Items are calculated in Low-Level Code order (highest level first).



It is mandatory to choose an MRP **Setup** with the field **Action Setup** set to *No.*

Outcome is comparable with the functionality of **MRP By Items** (so also **No influence of the MRP Limitations**); the starting point of the calculation is however completely different.

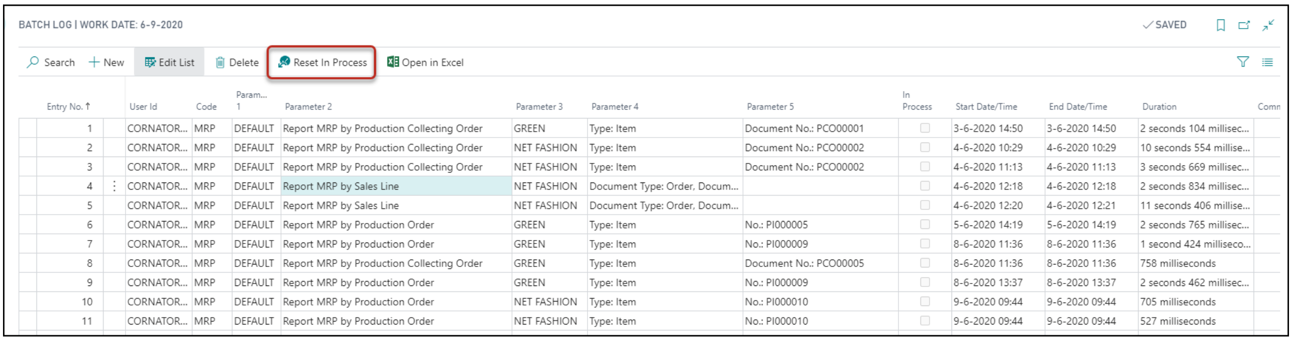
ACTIONS

MRP Actions is an optional Worksheet from where you can run the above four mentioned MRP Calculation methods. The created Suggestions/Quotes or Orders are presented in **Action Lines** that either can be auto executed in connection with the MRP Calculation or can manually be executed after revision.
MRP Actions furthermore gives you the option to recalculate already existing Purchase-/Production-/ Transfer Orders and will take the **MRP Limitations** into consideration.
See Running the MRP Using the Action Lines (MRP Actions)

BATCH LOG

To ensure that only one person at a time can excute an MRP Calculation a Batch Log will be created (Table ***6036524 Batch Log***)

If a Batch Log **Entry No.** still has field **In Process** set to *Yes*, the execution of a New MRP Calculation is not possible and an error will occur.



Entry No.	User Id	Code	Param... 1	Parameter 2	Parameter 3	Parameter 4	Parameter 5	In Process	Start Date/Time	End Date/Time	Duration	Comm
1	CORNATOR...	MRP	DEFAULT	Report MRP by Production Collecting Order	GREEN	Type: Item	Document No.: PCO00001	☐	3-6-2020 14:50	3-6-2020 14:50	2 seconds 104 millisec...	
2	CORNATOR...	MRP	DEFAULT	Report MRP by Production Collecting Order	NET FASHION	Type: Item	Document No.: PCO00002	☐	4-6-2020 10:29	4-6-2020 10:29	10 seconds 554 millise...	
3	CORNATOR...	MRP	DEFAULT	Report MRP by Production Collecting Order	NET FASHION	Type: Item	Document No.: PCO00002	☐	4-6-2020 11:13	4-6-2020 11:13	3 seconds 669 millisec...	
4	CORNATOR...	MRP	DEFAULT	Report MRP by Sales Line	NET FASHION	Document Type: Order, Docum...		☐	4-6-2020 12:18	4-6-2020 12:18	2 seconds 834 millisec...	
5	CORNATOR...	MRP	DEFAULT	Report MRP by Sales Line	NET FASHION	Document Type: Order, Docum...		☐	4-6-2020 12:20	4-6-2020 12:21	11 seconds 406 millise...	
6	CORNATOR...	MRP	DEFAULT	Report MRP by Production Order	GREEN	Type: Item	No.: PI000005	☐	5-6-2020 14:19	5-6-2020 14:19	2 seconds 765 millisec...	
7	CORNATOR...	MRP	DEFAULT	Report MRP by Production Order	GREEN	Type: Item	No.: PI000009	☐	8-6-2020 11:36	8-6-2020 11:36	1 second 424 milliseco...	
8	CORNATOR...	MRP	DEFAULT	Report MRP by Production Collecting Order	GREEN	Type: Item	Document No.: PCO00005	☐	8-6-2020 11:36	8-6-2020 11:36	758 milliseconds	
9	CORNATOR...	MRP	DEFAULT	Report MRP by Production Order	GREEN	Type: Item	No.: PI000009	☐	8-6-2020 13:37	8-6-2020 13:37	2 seconds 462 millisec...	
10	CORNATOR...	MRP	DEFAULT	Report MRP by Production Order	NET FASHION	Type: Item	No.: PI000010	☐	9-6-2020 09:44	9-6-2020 09:44	705 milliseconds	
11	CORNATOR...	MRP	DEFAULT	Report MRP by Production Order	NET FASHION	Type: Item	No.: PI000010	☐	9-6-2020 09:44	9-6-2020 09:44	527 milliseconds	

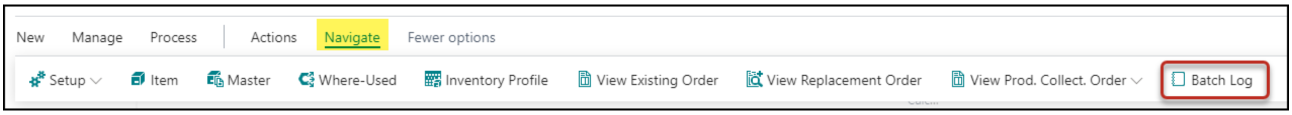
If an execution of a MRP Calculation has been interrupted with an error a RESET of the Batch Log Entry No. has to be done via click ***Reset in Process***

NOTE

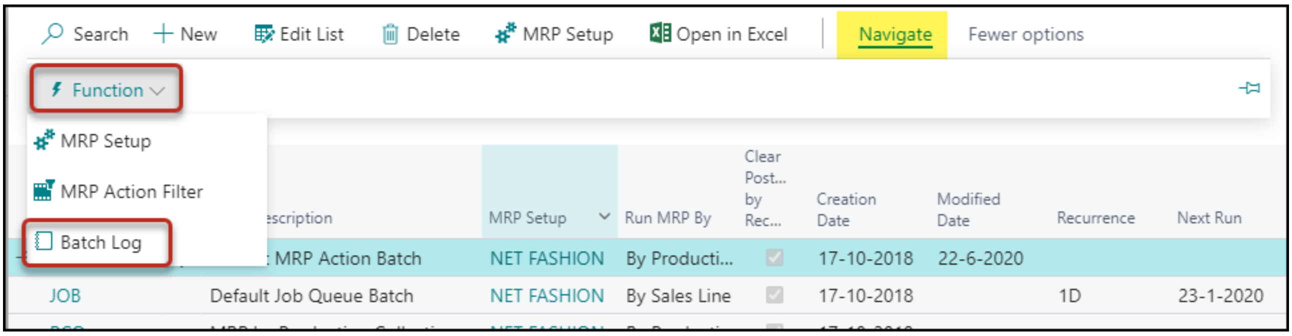
You should only RESET a Batch Log Entry No. that has a checkmark in **In Process** if you are the **User Id** for this Entry or if you know what has happened, otherwise you might interrupt the MRP Calculation from another user.

You can see the **Batch Log** in several places:

In the **MRP Actions**, click ***Navigate***, click ***Batch Log***

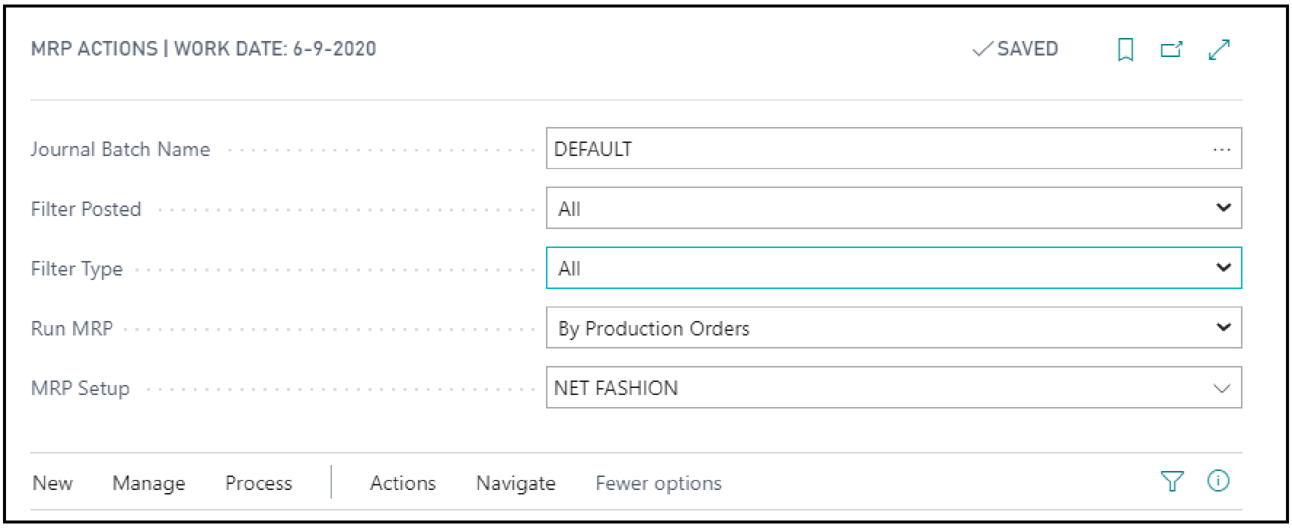


In the **MRP Action Journal Batch**, click ***Navigate***, click ***Function,*** click ***Batch Log***.



RUNNING THE MRP USING THE ACTION LINES (MRP ACTIONS)

MRP ACTIONS HEADER



DESCRIPTION OF THE FIELDS:

JOURNAL BATCH NAME

This field shows the **Journal Batch Name** of the MRP Actions.
If you want to select a new Journal Batch Name, click **Look up value** in the field to see the available Journal Batches or to create a new Journal Batch Name.
By opening the page **MRP Actions,** a default **MRP Action Journal Batch** called *STANDARD* is automatically created – if there is no one created already.

When choosing the **MRP Setup** this field can be updated based on the **MRP Action Journal Batch Name** in the MRP Setup.

NOTE
No matter if a MRP Calculation should be run directly or by using the MRP Actions, a **MRP Action Journal Batch** can be created for every MRP Setup no matter the content of the field **Action Setup**.
This makes it possible to use the filter functionality on the **MRP Actions** and makes it possible to execute a MRP Calculation directly via the **MRP Job Queue** functionality.
We recommend to have different Batch Names for the Batches used in the MRP Actions and the Batches used in the MRP Job Queues.

FILTER POSTED

To improve overview of Actions Lines you can set a filter on the field **Posted**. The filter works together with the **Filter Type**.
You can choose between the following three options:

All	All Action Lines are visible.
Not Posted	Only Action Lines with **Posted** is ☐ are visible.
Posted	Only Action Lines with **Posted** is ☑ are visible.

FILTER TYPE

To improve overview of Actions Lines you can set a filter on the field **Type**. The filter works together with the **Filter Posted**.

You can choose between the following three options:

All	All Action Lines are visible.
Production Orders	Only Action Lines with **Type** is *Production Order* are visible.
Purchase Orders	Only Action Lines with **Type** is *Purchase Order* are visible.
Transfer Orders	Only Action Lines with **Type** is *Transfer Order* are visible.

RUN MRP

Initial value is automatically inserted from the **MRP Action Journal Batch**.

Default choice of MRP report to run for MRP Calculation.

You can choose between the following four options:

- By Items
- By Sales Line
- By Production Orders
- By Prod. Collecting Order

Changing the field automatically changes the field **Run MRP by** of the **MRP Action Journal Batch**.

MRP SETUP

Initial value is automatically inserted from the **MRP Action Journal Batch**.

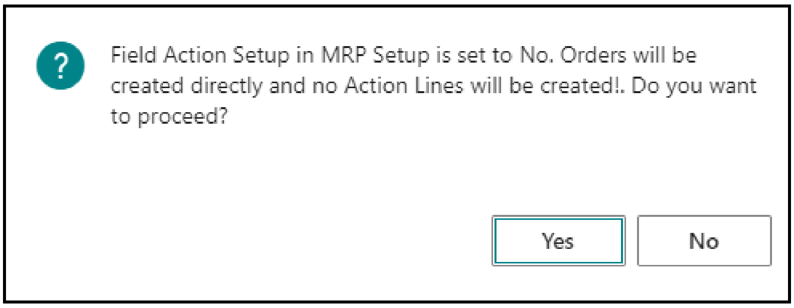
The **MRP Setup** can be chosen from the **MRP Setup List.**

Changing the field automatically changes the field **MRP Setup** of the **MRP Action Journal Batch**.

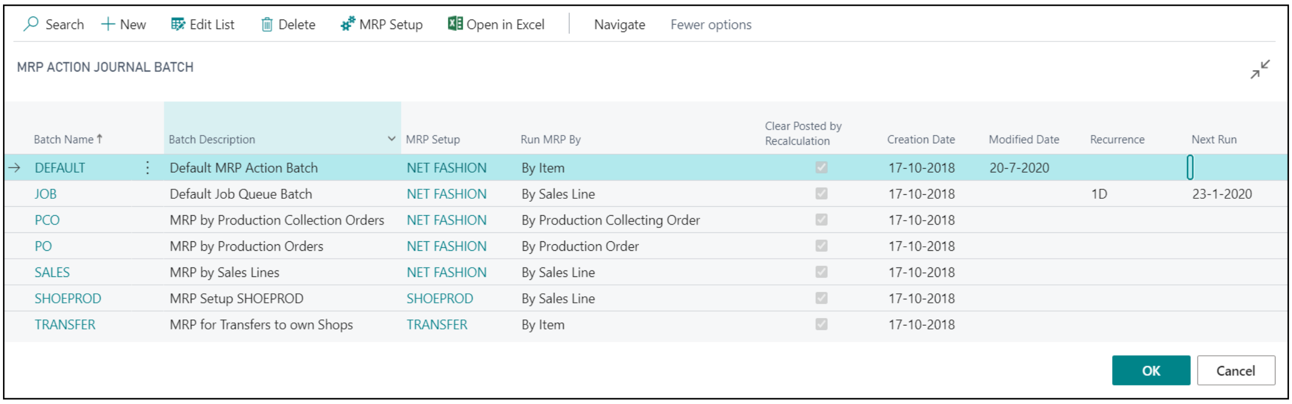
NOTE

If an **MRP Setup** is chosen, with the field **Action Setup** is *No,* no Action Lines will be created, but the MRP Calculation will immediately create the Purchase Quotes/Order, Production Orders, Production Collecting Orders and/or Transfer Orders!

In that case, you will get a warning, which you need to confirm:



MRP ACTION JOURNAL BATCH



Batch Name ↑	Batch Description	MRP Setup	Run MRP By	Clear Posted by Recalculation	Creation Date	Modified Date	Recurrence	Next Run
DEFAULT	Default MRP Action Batch	NET FASHION	By Item	☑	17-10-2018	20-7-2020		
JOB	Default Job Queue Batch	NET FASHION	By Sales Line	☑	17-10-2018		1D	23-1-2020
PCO	MRP by Production Collection Orders	NET FASHION	By Production Collecting Order	☑	17-10-2018			
PO	MRP by Production Orders	NET FASHION	By Production Order	☑	17-10-2018			
SALES	MRP by Sales Lines	NET FASHION	By Sales Line	☑	17-10-2018			
SHOEPROD	MRP Setup SHOEPROD	SHOEPROD	By Sales Line	☑	17-10-2018			
TRANSFER	MRP for Transfers to own Shops	TRANSFER	By Item	☑	17-10-2018			

DESCRIPTION OF THE FIELDS:

BATCH NAME

The MRP Action Journal **Batch Name** is the Key field.

DESCRIPTION

Your detailed **Description** of the actual MRP Action Journal Batch Name

MRP SETUP

Default choice of the **MRP Setup** for the actual MRP Action Journal **Batch Name**.

The **MRP Setup** can be chosen from the **MRP Setup List.**

This field will be updated automatically based on the chosen **MRP Setup** while running the MRP Calculation with actual MRP Action Journal Batch.

RUN MRP BY

Default choice of MRP Calculation Report to run for actual MRP Action Journal Batch Name

You can choose between the following four options

- By Items
- By Sales Line
- By Production Orders
- By Prod. Collecting Order

This field will be updated automatically based on the chosen **Run MRP** while running the MRP Calculation via the MRP Actions with actual MRP Action Journal Batch.

CLEAR POSTED BY RECALCULATION

If this field is set to ☑ all the MRP Action Lines that have been posted for the actual MRP Action Journal Batch Name are deleted each time an MRP Calculation is executed again.

If this field is set to ☐ the MRP Action Lines with **Posted** is *Yes* for the actual MRP Action Journal Batch Name will be maintained in the MRP Action Lines table, even if you execute an MRP Calculation again.

NOTE
Initial value is ☑.

CREATION DATE

This field will automatically be filled with the actual (Windows) Date the moment you create an MRP Action Journal Batch.

MODIFIED DATE

This field will automatically be filled with the actual (Windows) Date the moment you change an MRP Action Journal Batch (directly or indirectly).

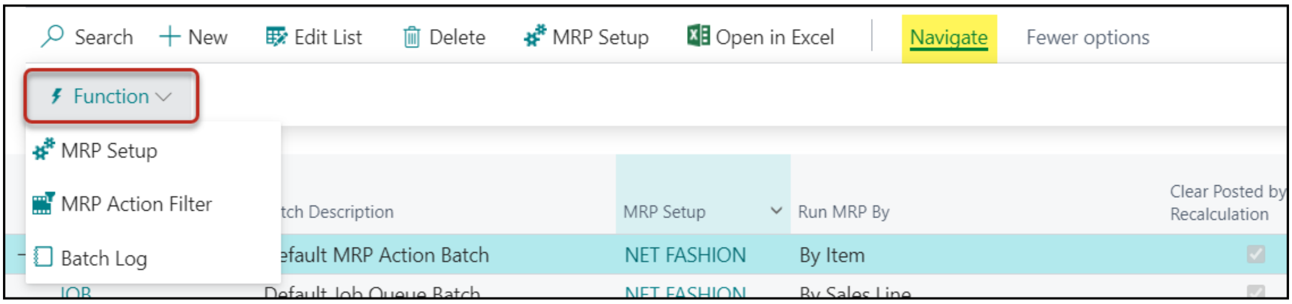
RECURRENCE

You can enter a Date Formula for the recurrence period regarding the Job Queue for the MRP Calculation.

NEXT RUN

Regarding running the MRP Calculation via the Job Queue, you need to determine on which Date the **Next Run** (first Run) should take place.

NAVIGATE/FUNCTION

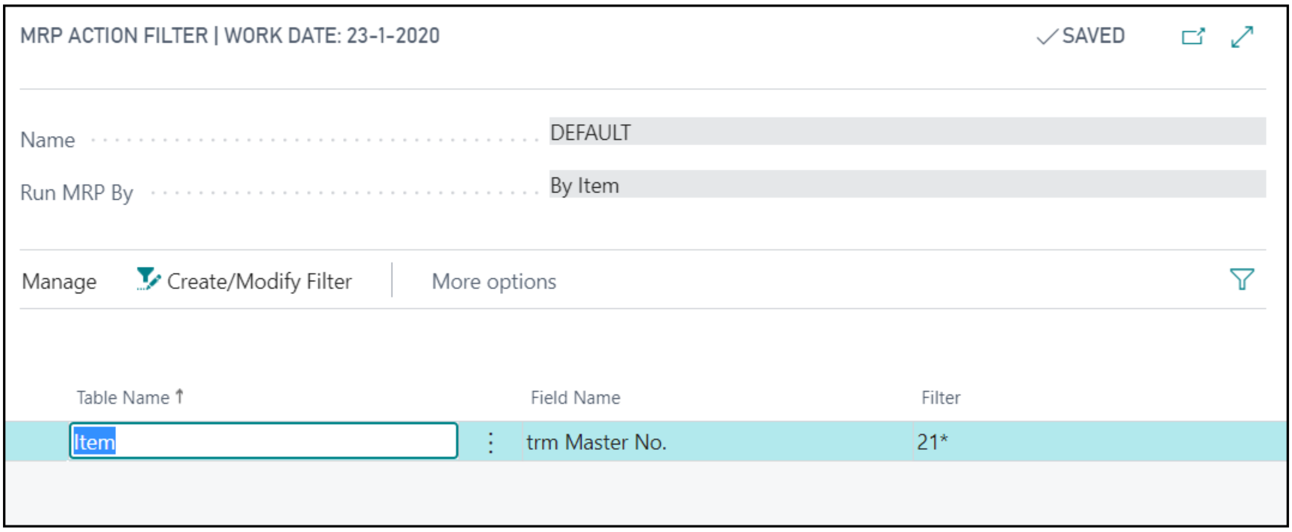


MRP SETUP

This will show the Card of the **MRP Setup** of the actual MRP Action Journal Batch.

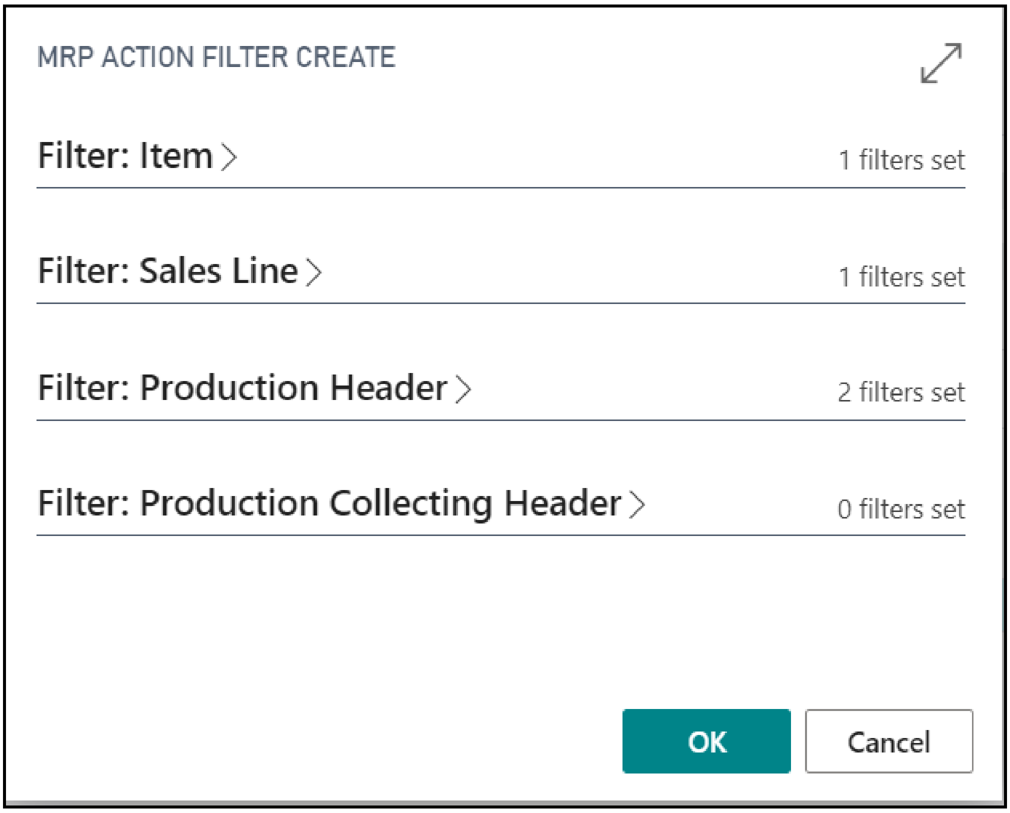
MRP ACTION FILTER

Via ***MRP Action Filter,*** you can see the last Filter you used when running the **MRP Calculation** via the **MRP Actions** with this MRP Action Journal Batch. I.e.:



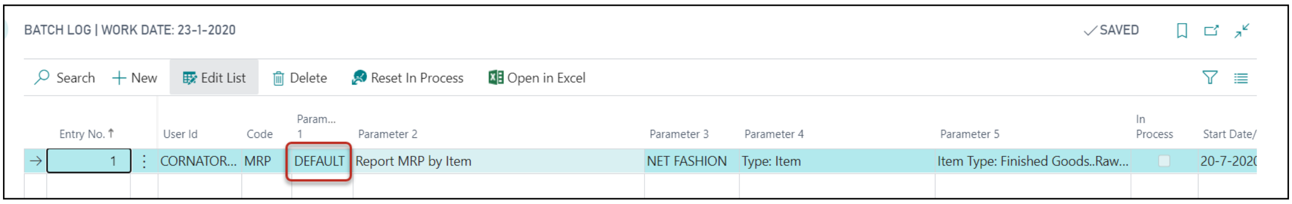
.

You are also able to enter special Filters upfront via click ***Create/Modify Filters***.



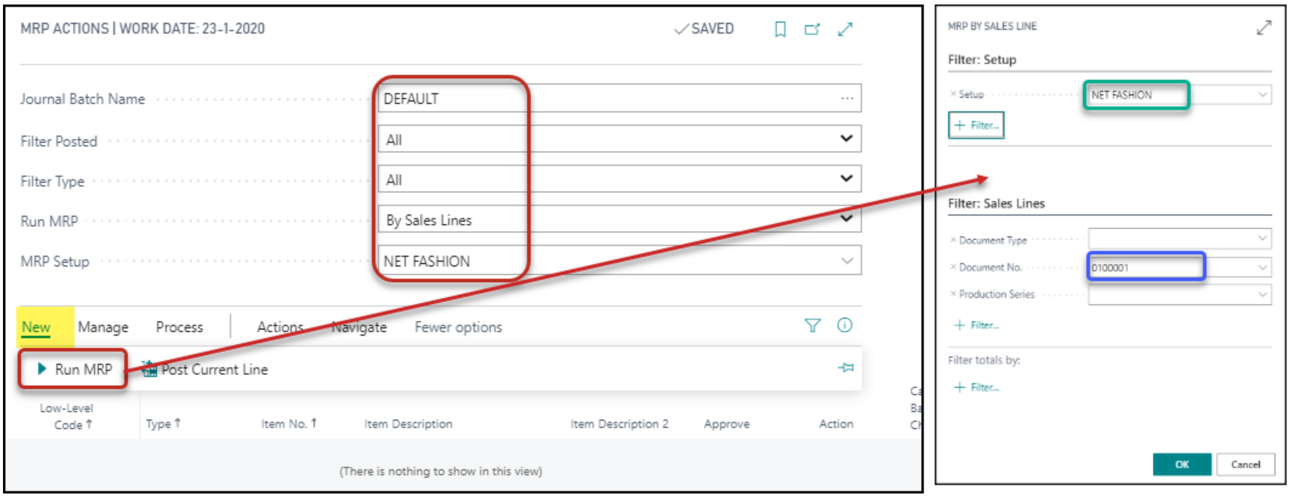
BATCH LOG

This will show the **Batch Log** of all the runs of the MRP Calculation – regardless if run via the MRP Actions or directly via one of the four options, or via a Job Queue – for the actual MRP Action Journal Batch, which will be shown in **Parameter 1**.

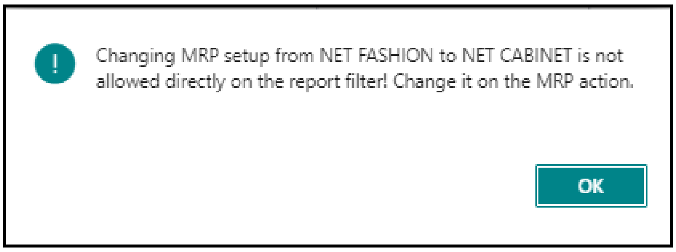


MRP ACTION LINES

If you run the **MRP Calculation** *By Sales Lines*, with a filter on the **Document No.** *0100001* (extra added in Extra Data)

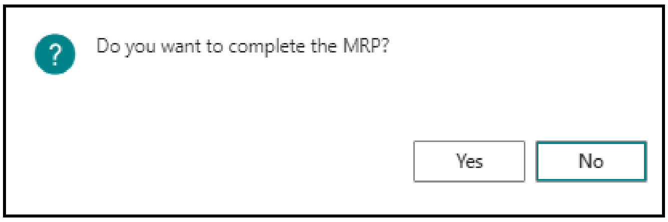


The **Setup** in the report based on the **Run MRP** in the MRP Actions will be filled based on the **MRP Setup** of the MRP Actions and you are not allowed to change it in the Request page of the report directly; this will even result in an error message. I.e.:



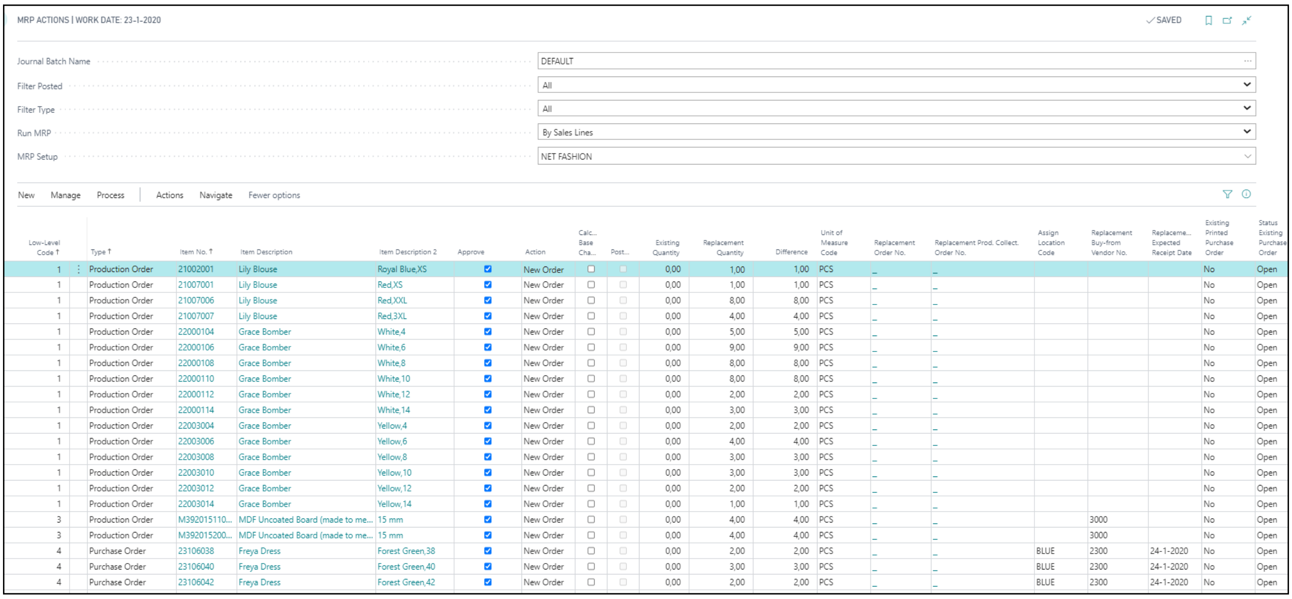
Click **OK**, will then abort the report and no MRP Calculation will take place.

If that is not the case, the following message appears:



Click **Yes**.

The **MRP Action Lines** will now look as follows:


MRP ACTIONS | WORK DATE: 23-1-2020 ✓SAVED

Journal Batch Name: DEFAULT
Filter Posted: All
Filter Type: All
Run MRP: By Sales Lines
MRP Setup: NET FASHION

New Manage Process | Actions Navigate Fewer options

Low-Level Code ↑	Type ↑	Item No. ↑	Item Description	Item Description 2	Approve	Action	Calc... Base Cha...	Post...	Existing Quantity	Replacement Quantity	Difference	Unit of Measure Code	Replacement Order No.	Replacement Prod. Collect. Order No.	Assign Location Code	Replacement Buy-from Vendor No.	Replaceme... Expected Receipt Date	Existing Printed Purchase Order	Status Existing Purchase Order
1	Production Order	21002001	Lily Blouse	Royal Blue,XS	☑	New Order	☐	☐	0,00	1,00	1,00	PCS	_	_				No	Open
1	Production Order	21007001	Lily Blouse	Red,XS	☑	New Order	☐	☐	0,00	1,00	1,00	PCS	_	_				No	Open
1	Production Order	21007006	Lily Blouse	Red,XXL	☑	New Order	☐	☐	0,00	8,00	8,00	PCS	_	_				No	Open
1	Production Order	21007007	Lily Blouse	Red,3XL	☑	New Order	☐	☐	0,00	4,00	4,00	PCS	_	_				No	Open
1	Production Order	22000104	Grace Bomber	White,4	☑	New Order	☐	☐	0,00	5,00	5,00	PCS	_	_				No	Open
1	Production Order	22000106	Grace Bomber	White,6	☑	New Order	☐	☐	0,00	9,00	9,00	PCS	_	_				No	Open
1	Production Order	22000108	Grace Bomber	White,8	☑	New Order	☐	☐	0,00	8,00	8,00	PCS	_	_				No	Open
1	Production Order	22000110	Grace Bomber	White,10	☑	New Order	☐	☐	0,00	8,00	8,00	PCS	_	_				No	Open
1	Production Order	22000112	Grace Bomber	White,12	☑	New Order	☐	☐	0,00	2,00	2,00	PCS	_	_				No	Open
1	Production Order	22000114	Grace Bomber	White,14	☑	New Order	☐	☐	0,00	3,00	3,00	PCS	_	_				No	Open
1	Production Order	22003004	Grace Bomber	Yellow,4	☑	New Order	☐	☐	0,00	2,00	2,00	PCS	_	_				No	Open
1	Production Order	22003006	Grace Bomber	Yellow,6	☑	New Order	☐	☐	0,00	4,00	4,00	PCS	_	_				No	Open
1	Production Order	22003008	Grace Bomber	Yellow,8	☑	New Order	☐	☐	0,00	3,00	3,00	PCS	_	_				No	Open
1	Production Order	22003010	Grace Bomber	Yellow,10	☑	New Order	☐	☐	0,00	3,00	3,00	PCS	_	_				No	Open
1	Production Order	22003012	Grace Bomber	Yellow,12	☑	New Order	☐	☐	0,00	2,00	2,00	PCS	_	_				No	Open
1	Production Order	22003014	Grace Bomber	Yellow,14	☑	New Order	☐	☐	0,00	1,00	1,00	PCS	_	_				No	Open
3	Production Order	M392015110...	MDF Uncoated Board (made to me...	15 mm	☑	New Order	☐	☐	0,00	4,00	4,00	PCS	_	_		3000		No	Open
3	Production Order	M392015200...	MDF Uncoated Board (made to me...	15 mm	☑	New Order	☐	☐	0,00	4,00	4,00	PCS	_	_		3000		No	Open
4	Purchase Order	23106038	Freya Dress	Forest Green,38	☑	New Order	☐	☐	0,00	2,00	2,00	PCS	_	_	BLUE	2300	24-1-2020	No	Open
4	Purchase Order	23106040	Freya Dress	Forest Green,40	☑	New Order	☐	☐	0,00	3,00	3,00	PCS	_	_	BLUE	2300	24-1-2020	No	Open
4	Purchase Order	23106042	Freya Dress	Forest Green,42	☑	New Order	☐	☐	0,00	2,00	2,00	PCS	_	_	BLUE	2300	24-1-2020	No	Open

DESCRIPTION OF SOME FIELDS:

LOW-LEVEL CODE

During the MRP Calculation, the Lowest Management Level for the Item is found to secure that all Levels above are calculated before calculating the specific Item. The Integer value in the field corresponds to the Low-Level Code found in the MRP Calculation.

If manual changes of quantities has to be done on the Action Lines it is recommended to start with the highest **Low-Level Code** (1= Top Level), to ensure that changes in quantities on other Items related to the specific Item is monitored on the MRP Action Lines.

TYPE

Production Order	The Action Line is related to an existing or to be created *Production Order*
Purchase Order	The Action Line is related to an existing or to be created *Purchase Order*
Transfer Order	The Action Line is related to an existing or to be created *Transfer Order*

NOTE

Based on the **MRP Limitations,** the **Type** *Production Order* can also result in *Production Collecting Orders.*

APPROVE

☐	When posting this Action Line will be skipped and no Action will be carried out
☑	When posting this Action Line, the value of the field **Action** will be carried out

ACTION

Action to be carried out when posting the MRP Action Line. The field **Approve** must be ☑to carry out the **Action**. The MRP Calculation comes with a proposal for the Action. You can however change it.

You can choose between the following five options:

None	Posting is done without any Actions: Nothing will happen.
New Order	A new Order will be created with the **Replacement Quantity**
Increase Order	Order will be increased to the **Replacement Quantity**

	How to increase, can be further specified in the field **Sub-Action**.
Reduce Order	The **Existing Order No.** will be reduced to the **Replacement Quantity**
Delete Order	The **Existing Order No.** will be deleted

SUB-ACTION

The **Sub-Action** is only applicable in connection with **Action** *Increase Order*
The MRP Calculation comes with a proposal for the **Sub-Action**. You can however change it.
You can choose between the following three options:

<empty>	The **Existing Order No.** will be increased to the **Replacement Quantity**
Difference on New Order	A new Order with the quantity in the field **Difference** will be created
Difference on New Line of Same Order	A new Order Line on the **Existing Order No.** with the quantity in the field **Difference** will be created. **Note**: This option is only valid on Purchase Orders

CALCULATION BASIS CHANGED

The field is automatically set to ☑if a change or **Replacement Quantity** on another Action Line has influenced the basis for the Calculation of the actual Action Line.
To get the changed quantity a recalculation must be carried out

NOTE
The criteria for the calculation can be changed. For instance, if the initial calculation was based on **Sales Lines**, and a **Replacement Quantity** was changed on the Action Line, a recalculation on the same criteria's as the initial MRP Calculation will result in a suggestion to change the Production Order that was Increased manually. In this specific scenario, the next MRP Calculation must be based on Production Orders.

POSTED

☐	The Action Line has not been posted and can still be modified.
☑	The Action Line has been posted and cannot be modified.

EXISTING QUANTITY

Quantity on an existing Order found in the Calculation Buffer

REPLACEMENT QUANTITY

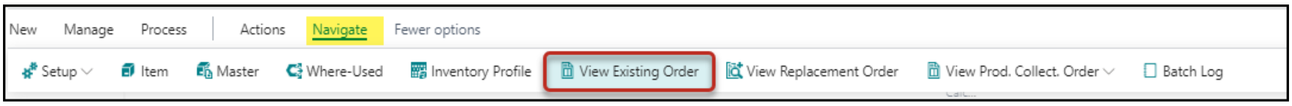
Replacement Quantity represents the suggested quantity based on the MRP Calculation, but you can change this quantity.
If the **Replacement Quantity** is manually changed and the Item is a Production Item, the Components of the BOM are recalculated as well. If Components from the BOM are existing on other Actions Lines for the same actual Journal Batch, the field **Calculation Basis Changed** of those Action Lines is set to ☑.

DIFFERENCE

Difference between **Replacement Quantity** and **Existing Quantity.**

EXISTING ORDER NO.

If an existing Order is found in the Calculation Buffer, the actual Order number is shown here.
You can see the details of this Order by double-click (or click ***View Existing Order*** in *Navigate*). This will open the Card of the Order.



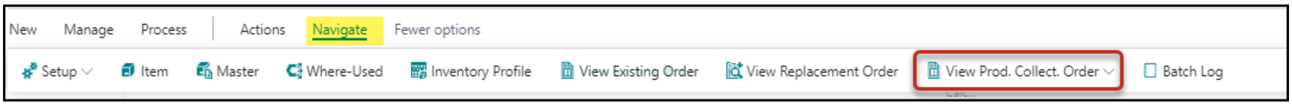
REPLACEMENT ORDER NO.

After posting the MRP Actions, this field will show the new Order that has been created or changed.
You can see the details of this Order by double-click (or click ***View Replacement Order*** under *Navigate*).
This will open the Card of the Order.

> **NOTE**
> This **No.** can be a Purchase Requisition (Quote), Purchase Order, Production Order with status Suggestion or Order or a Transfer Order.
> If **MRP Limitations** were setup, you can see the Production Collecting Order in the field **Replacement Prod. Collect. Order No.**

REPLACEMENT PROD. COLLECT. ORDER NO.

After posting the MRP Actions, this field will show the new Production Collecting Order that has been created or changed based on the **MRP Limitations.**
You can see the details of this Order by double-click (or click ***View Prod. Collect. Order*** under *Navigate*).
This will open the Card of the Order.



ASSIGN LOCATION CODE

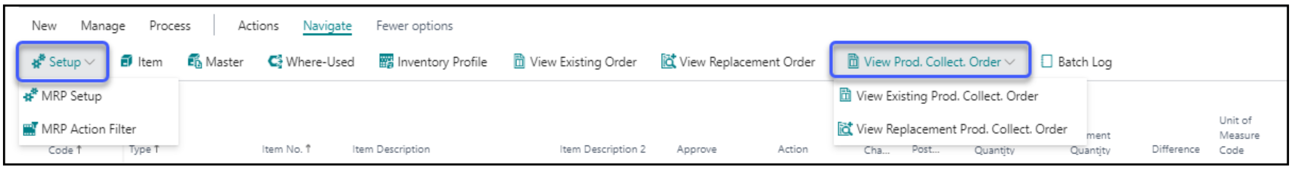
This will be the **Location Code** for the new/changed Order that will be created after posting the MRP Actions.
It can be based on the **Assign Location Code** of the **MRP Setup** or based on the **Location Code** of Sales Lines if the field **Run by Multiple Locations** in the **MRP Setup** has a checkmark.

If the field **Run by Multiple Locations** in the **MRP Setup** does not have a checkmark, and the **Assign Location Code** in the **MRP Setup** is empty, all demands will be summarized on an Action Line with **Assign Location Code** is empty!

You can change this field manually before posting the MRP Actions.

> **NOTE**
> Regarding **Type** *Transfer Order:* In the table MRP Action (6037305), you do have the fields for **Transfer from Code**, **Transfer to Code** and **Transfer in Transit Code** for the Locations involved. They are however not in the page ***MRP Actions (6037308)***.
> For **Type** *Transfer Order,* the **Assign Location Code** of the MRP Actions represents the **Transfer to Code.**

NAVIGATE

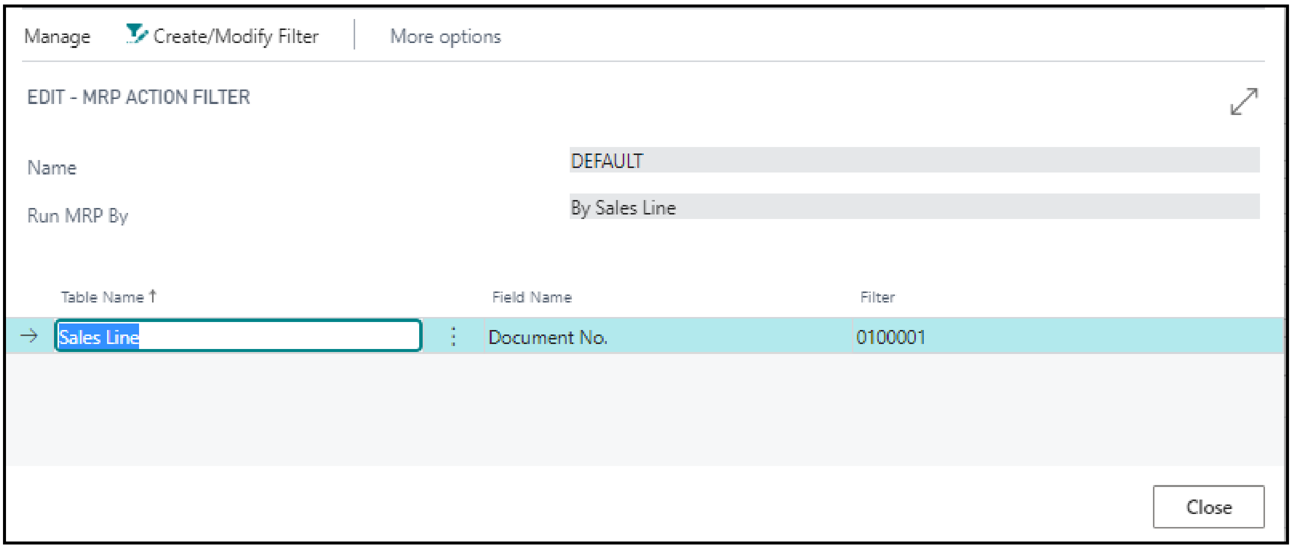


MRP SETUP

This will open the Card of the used **MRP Setup**.

MRP ACTION FILTER

This will show the filters used when running the **MRP Calculation**.



At the initial run, the filters used on the MRP Calculation are saved and will be inserted in the MRP Calculation as an initial suggestion at recalculation.

ITEM

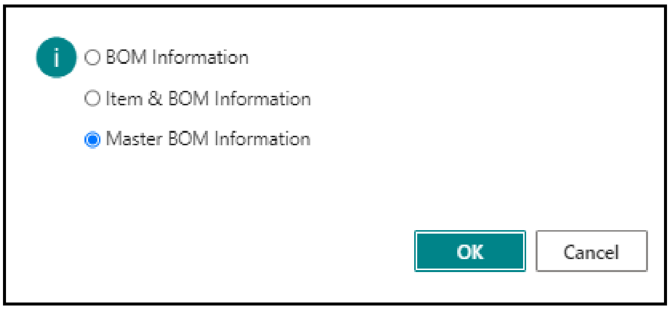
This will open the **Item Card** of the Item on the Action Line.

MASTER

This will open the **Master Card** of the Item on the Action Line.

WHERE USED

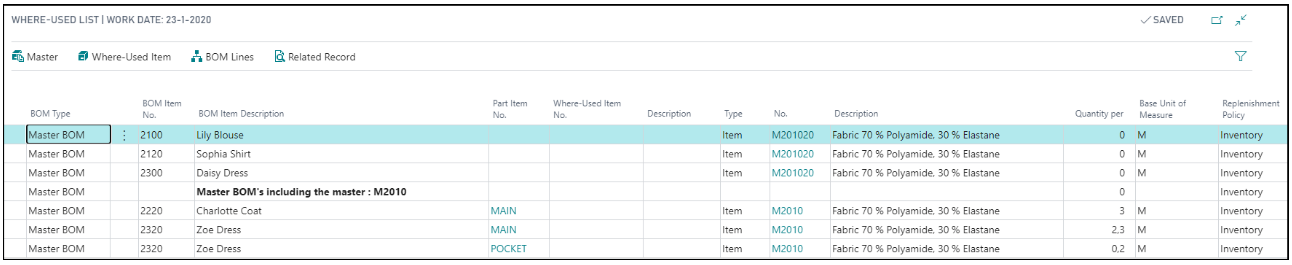
This function can show you in which Bill of Materials the current Action Line is used.



You can choose between the following three options:

BOM Information	You want to know in which Masters of Item BOMs specific Items/Operations are used in the BOM
Item & BOM Information	You want to know in which Items specific Items/Operations are used in the BOM
Master BOM Information	You want to know in which Masters specific Items/Operations are used in the BOM

I.e. for Item *M201020 Fabric 70 % Polyamide, 30 % Elastane, Royal Blue,* choosing option *BOM Information* will show:

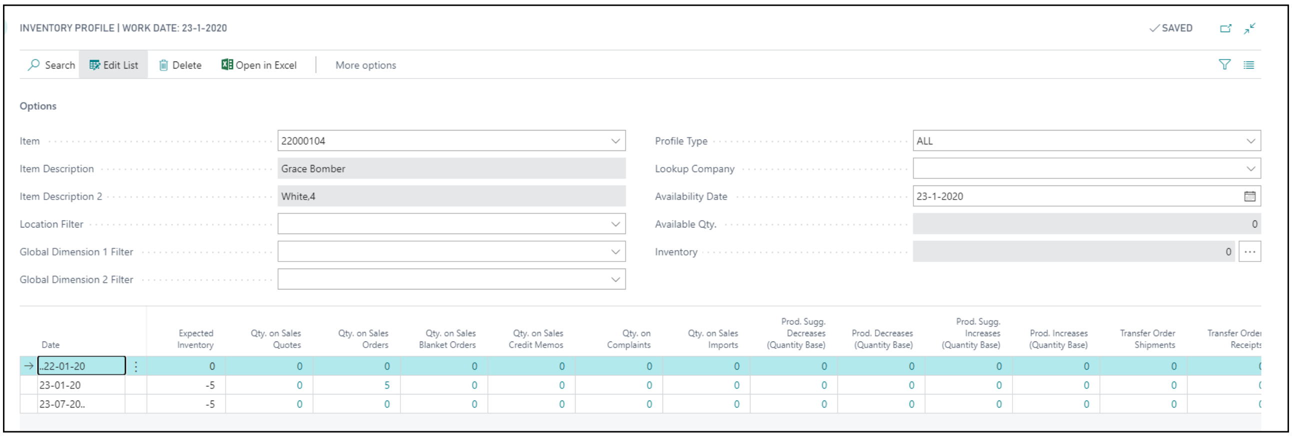

WHERE-USED LIST | WORK DATE: 23-1-2020 SAVED

Master Where-Used Item BOM Lines Related Record

BOM Type	BOM Item No.	BOM Item Description	Part Item No.	Where-Used Item No.	Description	Type	No.	Description	Quantity per	Base Unit of Measure	Replenishment Policy
Master BOM	2100	Lily Blouse				Item	M201020	Fabric 70 % Polyamide, 30 % Elastane	0	M	Inventory
Master BOM	2120	Sophia Shirt				Item	M201020	Fabric 70 % Polyamide, 30 % Elastane	0	M	Inventory
Master BOM	2300	Daisy Dress				Item	M201020	Fabric 70 % Polyamide, 30 % Elastane	0	M	Inventory
Master BOM		**Master BOM's including the master : M2010**							0		Inventory
Master BOM	2220	Charlotte Coat	MAIN			Item	M2010	Fabric 70 % Polyamide, 30 % Elastane	3	M	Inventory
Master BOM	2320	Zoe Dress	MAIN			Item	M2010	Fabric 70 % Polyamide, 30 % Elastane	2,3	M	Inventory
Master BOM	2320	Zoe Dress	POCKET			Item	M2010	Fabric 70 % Polyamide, 30 % Elastane	0,2	M	Inventory

INVENTORY PROFILE

This will show the **Inventory Profile** of the Item on the Action Line.


INVENTORY PROFILE | WORK DATE: 23-1-2020 SAVED

Search Edit List Delete Open in Excel More options

Options

Item: 22000104
Item Description: Grace Bomber
Item Description 2: White,4
Location Filter:
Global Dimension 1 Filter:
Global Dimension 2 Filter:
Profile Type: ALL
Lookup Company:
Availability Date: 23-1-2020
Available Qty.: 0
Inventory: 0

Date	Expected Inventory	Qty. on Sales Quotes	Qty. on Sales Orders	Qty. on Sales Blanket Orders	Qty. on Sales Credit Memos	Qty. on Complaints	Qty. on Sales Imports	Prod. Sugg. Decreases (Quantity Base)	Prod. Decreases (Quantity Base)	Prod. Sugg. Increases (Quantity Base)	Prod. Increases (Quantity Base)	Transfer Order Shipments	Transfer Order Receipts
..22-01-20	0	0	0	0	0	0	0	0	0	0	0	0	[illegible]
23-01-20	-5	0	5	0	0	0	0	0	0	0	0	0	[illegible]
23-07-20..	-5	0	0	0	0	0	0	0	0	0	0	0	[illegible]

VIEW EXISTING ORDER

In case there is an **Existing Order**, this will open the Order Card.

This can be a Purchase Quote, Purchase Order, Production Order or Transfer Order.

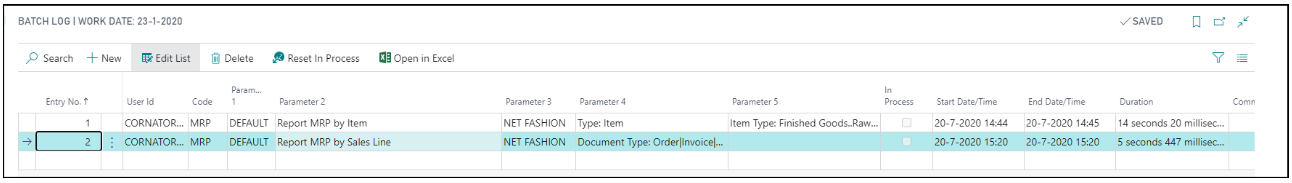
VIEW REPLACEMENT ORDER

In case you have posted the Actions Lines, and the **Replacement Order** is created, you can view the Order Card of this Replacement Order.

This can be a Purchase Quote, Purchase Order, Production order or Transfer Order.

BATCH LOG

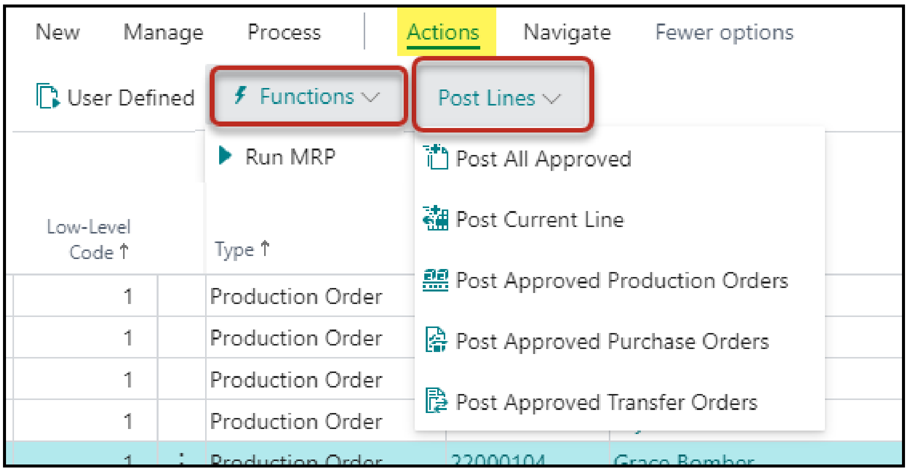
This can show you the **Log** of all the MRP Calculations. I.e.:


BATCH LOG | WORK DATE: 23-1-2020 SAVED

Search New Edit List Delete Reset In Process Open in Excel

Entry No. ↑	User Id	Code	Param... 1	Parameter 2	Parameter 3	Parameter 4	Parameter 5	In Process	Start Date/Time	End Date/Time	Duration	Comn
1	CORNATOR...	MRP	DEFAULT	Report MRP by Item	NET FASHION	Type: Item	Item Type: Finished Goods..Raw...	☐	20-7-2020 14:44	20-7-2020 14:45	14 seconds 20 millisec...	
2	CORNATOR...	MRP	DEFAULT	Report MRP by Sales Line	NET FASHION	Document Type: Order|Invoice|...		☐	20-7-2020 15:20	20-7-2020 15:20	5 seconds 447 millisec...	

ACTIONS



FUNCTIONS / RUN MRP

Initiates the MRP Calculation and creates Action Lines.
The actual **Journal Batch Name** is transferred to the **MRP Setup** table field **Action Journal Batch Name**.
The report corresponding to the option in the Field **Run MRP** is called with field **MRP Setup**. On the report, it is possible to set filters.

POST LINES / POST ALL APPROVED

This will post all Action Lines with **Approved** = ☑

POST LINES / POST CURRENT LINE

This will only post the current Action Line if **Approved** = ☑.

POST LINES / POST APPROVED PRODUCTION ORDERS

This will only post Action Lines of **Type** *Production Order* and with **Approved** = ☑

POST LINES / POST APPROVED PURCHASE ORDERS

This will only post Action Lines of **Type** *Purchase Order* and with **Approved** = ☑

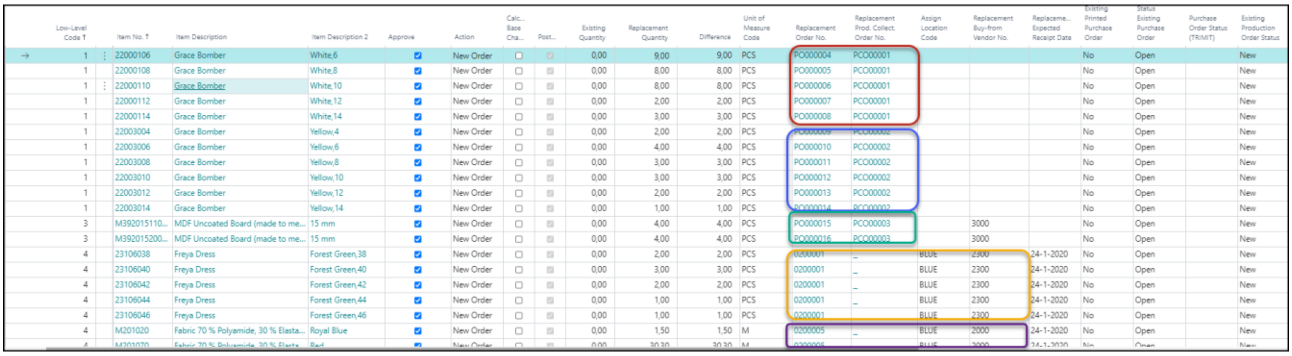
POST LINES / POST APPROVED TRANSFER ORDERS

This will only post Action Lines of **Type** *Transfer Order* and with **Approved** = ☑

POSTING ACTION LINES

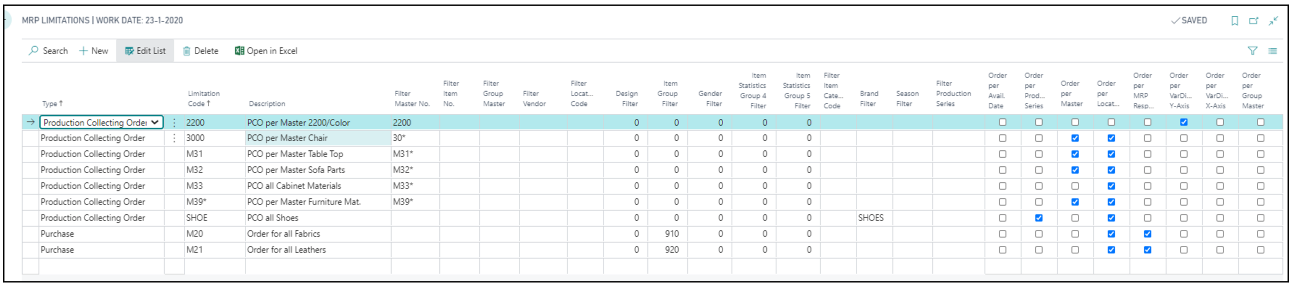
If you post the Action Lines, via the five (Post Lines) different Actions that you can choose, the new Purchase Requisitions or Orders (based on the field **Assign Purchase Document Type** of the chosen MRP Setup) or new Production Suggestions or Orders (based on the field **Assign Production Order Document Type** of the chosen MRP Setup) or the new Transfer Orders or the new Production Collecting Orders (based on the **MRP Limitations)** will be created or changed.

If you did not delete the Action Lines during posting (field **Clear Posting by Recalculation** in the Batch Name), you can see the result in the Action Lines after posting.
The fields starting with *Replacement* will automatically be filled with the actual created/changed Order Nos.



Low-Level Code ↑	Item No. ↑	Item Description	Item Description 2	Approve	Action	Calc... Base Cha...	Post...	Existing Quantity	Replacement Quantity	Difference	Unit of Measure Code	Replacement Order No.	Replacement Prod. Collect. Order No.	Assign Location Code	Replacement Buy-from Vendor No.	Replaceme... Expected Receipt Date	Existing Printed Purchase Order	Status Existing Purchase Order	Purchase Order Status (TRIMIT)	Existing Production Order Status
1	22000106	Grace Bomber	White,6	☑	New Order	☐	☐	0,00	9,00	9,00	PCS	PO000004	PCO00001				No	Open		New
1	22000108	Grace Bomber	White,8	☑	New Order	☐	☐	0,00	8,00	8,00	PCS	PO000005	PCO00001				No	Open		New
1	22000110	Grace Bomber	White,10	☑	New Order	☐	☐	0,00	8,00	8,00	PCS	PO000006	PCO00001				No	Open		New
1	22000112	Grace Bomber	White,12	☑	New Order	☐	☐	0,00	2,00	2,00	PCS	PO000007	PCO00001				No	Open		New
1	22000114	Grace Bomber	White,14	☑	New Order	☐	☐	0,00	3,00	3,00	PCS	PO000008	PCO00001				No	Open		New
1	22003004	Grace Bomber	Yellow,4	☑	New Order	☐	☐	0,00	2,00	2,00	PCS	PO000009	PCO00002				No	Open		New
1	22003006	Grace Bomber	Yellow,6	☑	New Order	☐	☐	0,00	4,00	4,00	PCS	PO000010	PCO00002				No	Open		New
1	22003008	Grace Bomber	Yellow,8	☑	New Order	☐	☐	0,00	3,00	3,00	PCS	PO000011	PCO00002				No	Open		New
1	22003010	Grace Bomber	Yellow,10	☑	New Order	☐	☐	0,00	3,00	3,00	PCS	PO000012	PCO00002				No	Open		New
1	22003012	Grace Bomber	Yellow,12	☑	New Order	☐	☐	0,00	2,00	2,00	PCS	PO000013	PCO00002				No	Open		New
1	22003014	Grace Bomber	Yellow,14	☑	New Order	☐	☐	0,00	1,00	1,00	PCS	PO000014	PCO00002				No	Open		New
3	M392015110...	MDF Uncoated Board (made to me...	15 mm	☑	New Order	☐	☐	0,00	4,00	4,00	PCS	PO000015	PCO00003		3000		No	Open		New
3	M392015200...	MDF Uncoated Board (made to me...	15 mm	☑	New Order	☐	☐	0,00	4,00	4,00	PCS	PO000016	PCO00003		3000		No	Open		New
4	23106038	Freya Dress	Forest Green,38	☑	New Order	☐	☐	0,00	2,00	2,00	PCS	0200001	_	BLUE	2300	24-1-2020	No	Open		New
4	23106040	Freya Dress	Forest Green,40	☑	New Order	☐	☐	0,00	3,00	3,00	PCS	0200001	_	BLUE	2300	24-1-2020	No	Open		New
4	23106042	Freya Dress	Forest Green,42	☑	New Order	☐	☐	0,00	2,00	2,00	PCS	0200001	_	BLUE	2300	24-1-2020	No	Open		New
4	23106044	Freya Dress	Forest Green,44	☑	New Order	☐	☐	0,00	1,00	1,00	PCS	0200001	_	BLUE	2300	24-1-2020	No	Open		New
4	23106046	Freya Dress	Forest Green,46	☑	New Order	☐	☐	0,00	1,00	1,00	PCS	0200001		BLUE	2300	24-1-2020	No	Open		New
4	M201020	Fabric 70 % Polyamide, 30 % Elasta...	Royal Blue	☑	New Order	☐	☐	0,00	1,50	1,50	M	0200005	_	BLUE	2000	24-1-2020	No	Open		New
4	M201070	Fabric 70 % Polyamide, 30 % Elasta...	Red	☑	New Order	☐	☐	0,00	30,30	30,30	M	0200005		BLUE	2000	24-1-2020	No	Open		New

As shown in the previous picture, Production Collecting Orders can be created as well if you use the MRP Limitations with **Type** *Production Collecting Order*. I.e.:



MRP LIMITATIONS | WORK DATE: 23-1-2020

Search | New | Edit List | Delete | Open in Excel | ✓SAVED

Type ↑	Limitation Code ↑	Description	Filter Master No.	Filter Item No.	Filter Group Master	Filter Vendor	Filter Locat... Code	Design Filter	Item Group Filter	Gender Filter	Item Statistics Group 4 Filter	Item Statistics Group 5 Filter	Filter Item Cate... Code	Brand Filter	Season Filter	Filter Production Series	Order per Avail. Date	Order per Prod... Series	Order per Master	Order per Locat...	Order per MRP Resp...	Order per VarDi... Y-Axis	Order per VarDi... X-Axis	Order per Group Master
Production Collecting Order	2200	PCO per Master 2200/Color	2200					0	0	0	0	0					☐	☐	☐	☐	☐	☑	☐	☐
Production Collecting Order	3000	PCO per Master Chair	30*					0	0	0	0	0					☐	☐	☑	☑	☐	☐	☐	☐
Production Collecting Order	M31	PCO per Master Table Top	M31*					0	0	0	0	0					☐	☐	☑	☑	☐	☐	☐	☐
Production Collecting Order	M32	PCO per Master Sofa Parts	M32*					0	0	0	0	0					☐	☐	☑	☑	☐	☐	☐	☐
Production Collecting Order	M33	PCO all Cabinet Materials	M33*					0	0	0	0	0					☐	☐	☐	☑	☐	☐	☐	☐
Production Collecting Order	M39*	PCO per Master Furniture Mat.	M39*					0	0	0	0	0					☐	☐	☑	☑	☐	☐	☐	☐
Production Collecting Order	SHOE	PCO all Shoes						0	0	0	0	0		SHOES			☐	☑	☐	☑	☐	☐	☐	☐
Purchase	M20	Order for all Fabrics						0	910	0	0	0					☐	☐	☐	☑	☑	☐	☐	☐
Purchase	M21	Order for all Leathers						0	920	0	0	0					☐	☐	☐	☑	☑	☐	☐	☐

For all Masters for which Production Orders must be created/maintained:

- For all Masters that start with a *M39**, **Production Collecting Orders** will be created per **Master/Location**.
- For all Masters that start with *30**, a **Production Collecting Orders** will be created per **Master/Location**.
- For Master *2200* a **Production Collecting Order** will be created per **VarDim Y-Axis** (Color)

For all Masters for which Purchase Requisitions/Orders must be created/maintained:

- For all Masters that have **Item Group** *910 Fabrics* a **Purchase Requisition/Order** will be created per **Vendor/Location/MRP Responsible**
- For all other Masters a **Purchase Requisition/Order** will be created per **Vendor/Master/Location**.

JOB QUEUE FOR MRP

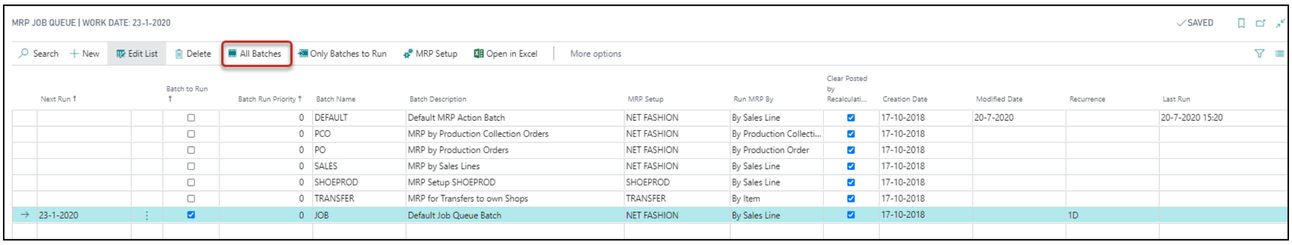
Because the MRP Calculation can take much time, we have created a special Job Queue for the MRP Calculation.

> **NOTE**
> Keep in mind that the Job Queue is working with the actual Windows Data, and not with the Work Date.
> So, in case you are trying/demoing this procedure change the Work Date of the Demo Company into the actual Date or make sure that Dates used for **Next Run** or **Earliest Start Date** etc. are based on the actual Dates.

MRP JOB QUEUE

You can create new Job Queue for MRP via **Tell me** *MRP Job Queue*:
You can setup the **MRP Job Queue** by using the MRP Action Journal **Batch Names** that were also used in the **MRP Actions.**

First, click ***All Batches,*** to see all the MRP Action Journal Batches that already have been created.



Next Run ↑	Batch to Run ↑	Batch Run Priority ↑	Batch Name	Batch Description	MRP Setup	Run MRP By	Clear Posted by Recalculati...	Creation Date	Modified Date	Recurrence	Last Run
	☐	0	DEFAULT	Default MRP Action Batch	NET FASHION	By Sales Line	☑	17-10-2018	20-7-2020		20-7-2020 15:20
	☐	0	PCO	MRP by Production Collection Orders	NET FASHION	By Production Collecti...	☑	17-10-2018			
	☐	0	PO	MRP by Production Orders	NET FASHION	By Production Order	☑	17-10-2018			
	☐	0	SALES	MRP by Sales Lines	NET FASHION	By Sales Line	☑	17-10-2018			
	☐	0	SHOEPROD	MRP Setup SHOEPROD	SHOEPROD	By Sales Line	☑	17-10-2018			
	☐	0	TRANSFER	MRP for Transfers to own Shops	TRANSFER	By Item	☑	17-10-2018			
23-1-2020	☑	0	JOB	Default Job Queue Batch	NET FASHION	By Sales Line	☑	17-10-2018		1D	

DESCRIPTION OF THE FIELDS

NEXT RUN

The **Date** for the Next Run of the MRP Calculation.
When a **Batch Name** is attached to the MRP Job Queue (**Batch to Run** is set to *Yes*), the **Next Run** Date is Mandatory. If the field **Recurrence** (DateFormula) is filled, the field **Next Run** is automatically recalculated when the Batch Name was executed via the Job Queue.

BATCH TO RUN

A checkmark in this field means that the **MRP Action Journal Batch Name** is Active for the MRP Job Queue but will only be executed if the Codeunit ***6037026 MRP Job Queue*** is in the **Job Queue Entries.**

Before you can enter a checkmark in this field, you need to enter a Date in the **Next Run**!
Also, the **MRP Setup** and **Run MRP by** needs to be filled already!

BATCH RUN PRIORITY

If multiple Batch Names are executed on the same Date the **Batch Run Priority** can be used to control which Batch Name is executed first. The highest priority (lowest Integer) is executed before the lowest priority (higher Integers).

This gives you the opportunity to run i.e. a Batch Name for the Finished Goods first and after that another Batch for the Components of the BOM's.

BATCH NAME

Name of the **MRP Action Journal Batch** for which you want to run the Job Queue

> **NOTE**
> If you create a new Line in the **MRP Job Queue** with a new **Batch Name,** it is also creating a record in the **MRP Action Journal Batch,** so can also be chosen in the **MRP Actions** on the field **Journal Batch Name**.

BATCH DESCRIPTION

Description of the **MRP Action Journal Batch** for which you want to run the Job Queue.

MRP SETUP

The code of the **MRP Setup** for which you want the MRP Calculation take place.

RUN MRP BY

The report for which the MRP Calculation should take place.
You can choose between the following four options

- By Items
- By Sales Line
- By Production Orders
- By Prod. Collecting Order

CLEAR POSTED BY RECALCULATION

If this field is set to ☑all the MRP Action Lines that have been posted for the actual MRP Action Journal Batch **Name** are deleted each time an MRP Calculation is executed again.

If this field is set to ☐, the MRP Action Lines with **Posted** is *Yes* for the actual MRP Action Journal Batch **Name,** will be maintained in the MRP Action Lines table; even if you execute an MRP Calculation again.

> **NOTE**
> Initial value is ☑.

CREATION DATE

This field will automatically be filled with the actual (Windows) Date the moment you create an MRP Action Journal Batch.

MODIFIED DATE

This field will automatically be filled with the actual (Windows) Date the moment you change an MRP Action Journal Batch (directly or indirectly).

RECURRENCE

You can enter a Date Formula for the recurrence period regarding the Job Queue for the MRP Calculation.

LAST RUN

Shows the Date and Time on which the last MRP Calculation did take place with this **Name** (MRP Journal Batch Name).
This can be an MRP Calculation that started via the MRP Actions manually or an MRP Calculation that was executed via the Job Queue.

NOTE
Changing one of the fields in this page of an existing **MRP Action Journal Batch** is also changing the data for future MRP Calculations in the **MRP Actions** when you use this **Name** in the **Journal Batch Name.** That is why we recommend using different Batch Names for the Batches used in the MRP Actions and Batches used in the MRP Job Queues.

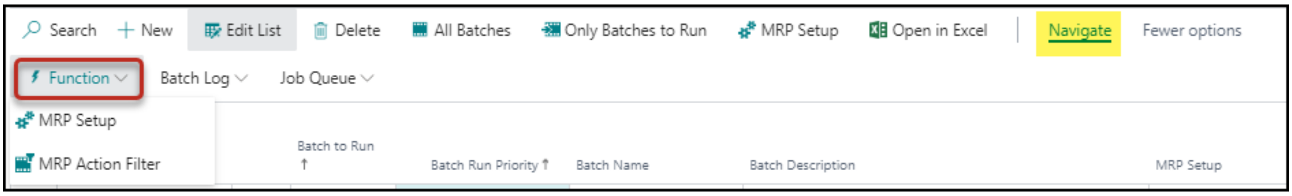
HOME

ALL BATCHES
This will show you all the **MRP Action Journal Batches** that were created.

ONLY IN BATCHES TO RUN
This will show you only the **MRP Action Journal Batches** with a checkmark in **Batch Run**.

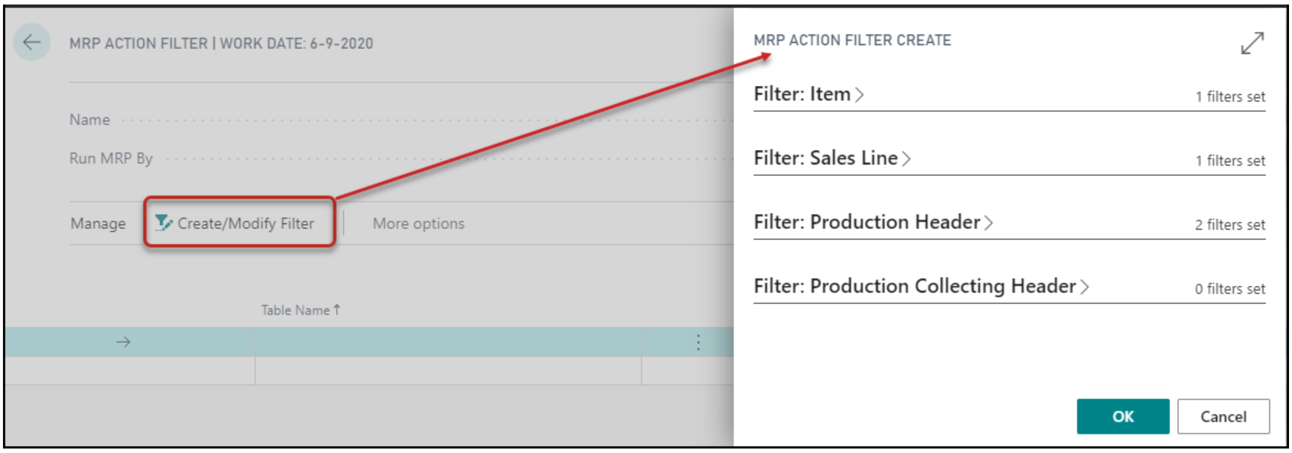
MRP SETUP
This will show you the Card of the **MRP Setup**

NAVIGATE/FUNCTIONS



MRP SETUP
This will show you the Card of the **MRP Setup**

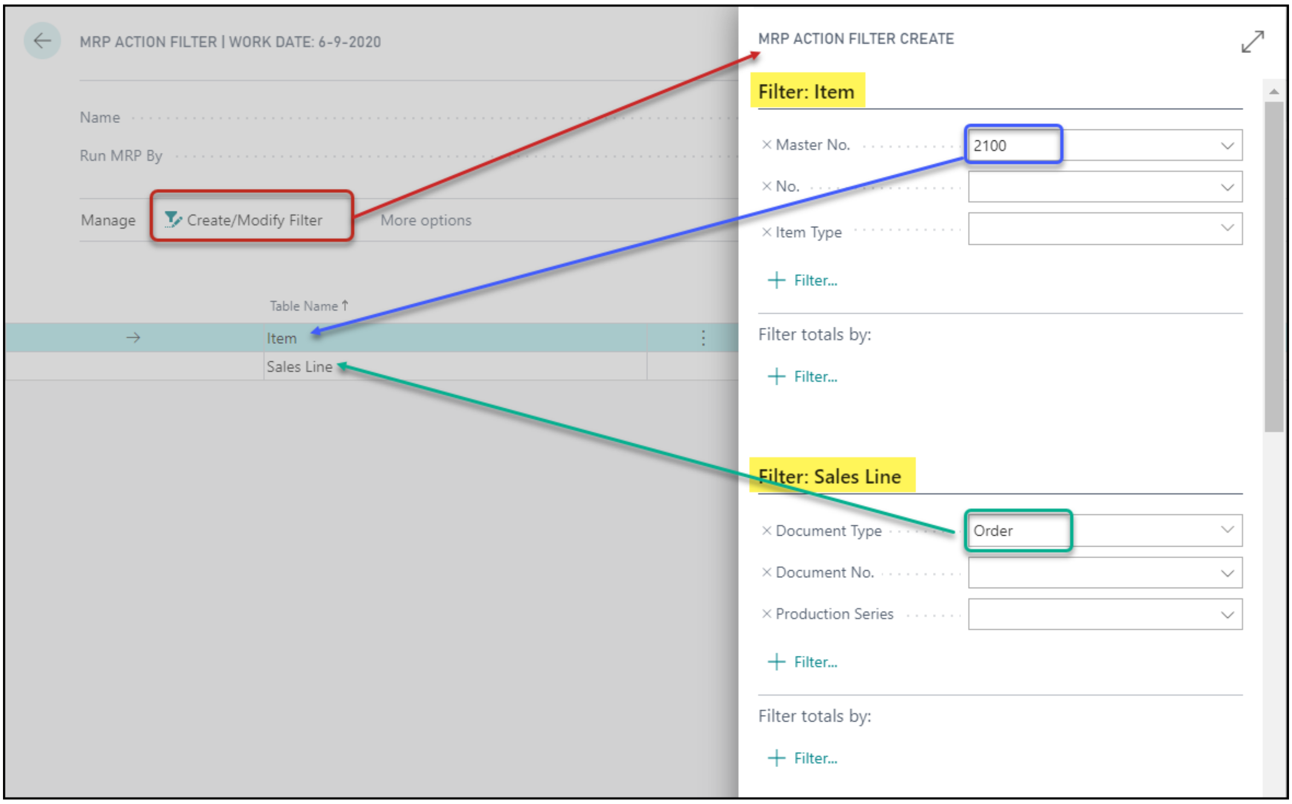
MRP ACTION FILTER
This will give you the opportunity to enter the filters for this specific Batch:



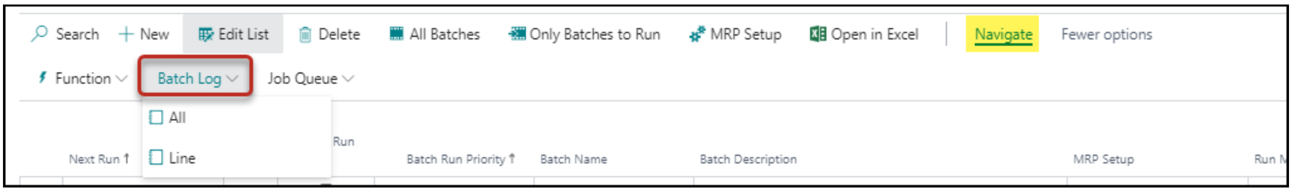
Keep in mind that the same filters apply as described earlier in By Items, By Sales Lines, By Production Orders and By Production Collection Orders.

Also, keep in mind that if the Batch is also used in a manually started **MRP Calculation** via the **MRP Actions,** these filters will be changed automatically based on the used filters for running the MRP Calculation.

I.e. for the **Name** *DEFAULT* you can enter filters on the **Item** (for inventory driven Items) and **Sales Line** (regarding Related Orders only).



NAVIGATE/BATCH LOG



ALL

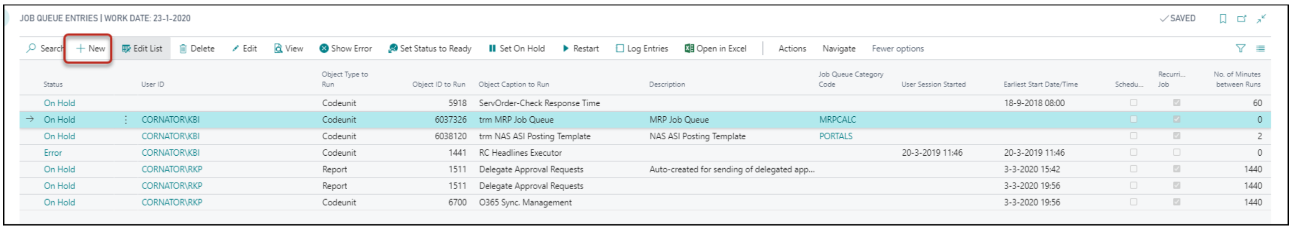
Will show all records in the Batch Log, regardless the **MRP Action Journal Batch** that was used.

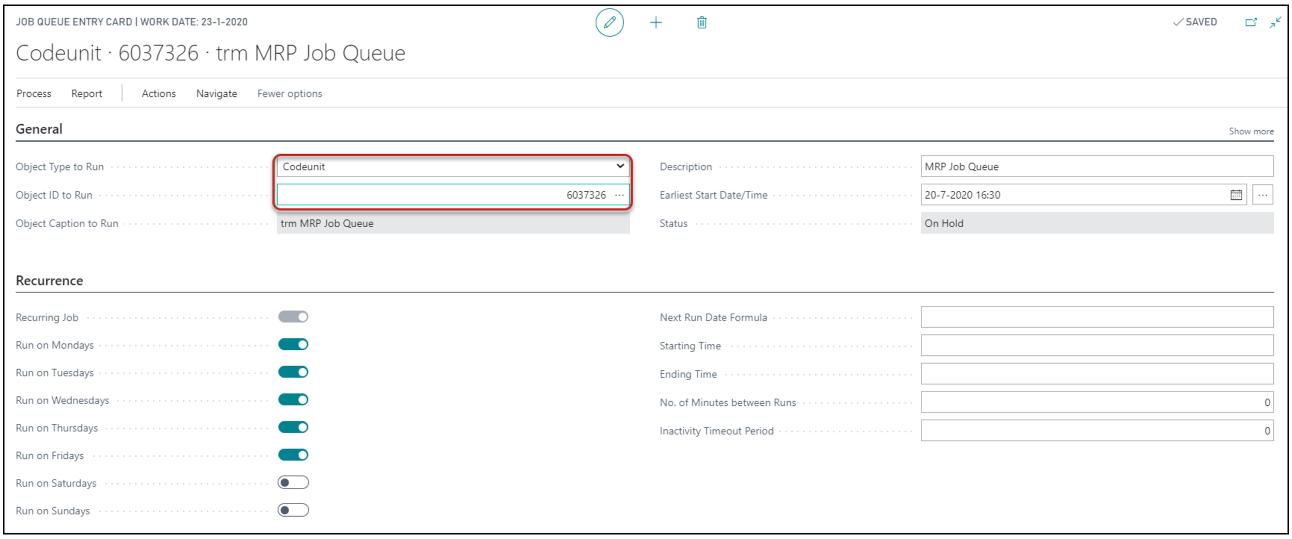
LINE

Will only show the records in the Batch Log regarding the current **Name** (MRP Action Journal Batch).

(MRP) JOB QUEUE ENTRY

After you have created the MRP Job Queue records with a checkmark in **Batch Run,** nothing happens, until you create the right **Job Queue Entry**.
This can be done via *Navigate,* click ***Job Queue Entries*****,** click ***New*****.**





For the **MRP Calculation**, the following fields must be set:

OBJECT TYPE TO RUN

This must the *Codeunit*

OBJECT ID TO RUN

This must be *6037326 trm MRP Job Queue*.

All the fields are standard Business Central fields and will not be described in detail.

After entering all the other fields, do not forget to click ***Process,*** click ***Set Status to Ready***, otherwise the Job will not be executed.

See https://docs.microsoft.com/en-us/dynamics365/business-central/admin-job-queues-schedule-tasks for more details.

There is the possibility to attach Subscribers before and after the execution of Batches and before and after execution of the individual Batch:

MRPJobQueue.Codeunit.al

src > MRPJobQueue.Codeunit.al > Codeunit 6037326 "trm MRP Job Queue"

```
Codeunit 6037326 "trm MRP Job Queue"
{

    trigger OnRun()
    begin
        Pf_OnBeforeMRPBatchLoop;

        MRPActionJournalBatch.SetCurrentkey("Batch Run", "Next Run", "Batch Run Priority");
        MRPActionJournalBatch.SetRange("Batch Run", true);
        MRPActionJournalBatch.SetFilter("Next Run", '%1..%2', 0D, WorkDate);
        if MRPActionJournalBatch.FindFirst then
            repeat
                Pf_OnBeforeMRPBatchRun(MRPActionJournalBatch);

                InitiateMRP.MRPActionBatchRun(MRPActionJournalBatch.Name);

                Pf_OnAfterMRPBatchRun(MRPActionJournalBatch)
            until MRPActionJournalBatch.Next = 0;

        Pf_OnAfterMRPBatchLoop;
    end;

    var
        MRPActionJournalBatch: Record "trm MRP Action Journal Batch";
        InitiateMRP: Codeunit "trm Initiate MRP";
```

EXTRA DATA

For the Masters *2300, 2310, 2320* and *2330* there are already SKUs created for the **Location** *BLUE, S_BRISTOL, S_LONDON* and *S_MANCHEST* if you want to show/explain the **Requisition System** *Transfer*.

To see the pictures as shown in this White Paper, extra data has been added to the demo company *CRONUS TRIMIT W1 Ltd.*

MRP LIMITATIONS

MRP LIMITATIONS | WORK DATE: 23-1-2020 ✓SAVED

Search + New Edit List Delete Open in Excel

Type ↑	Limitation Code ↑	Description	Filter Master No.	Filter Item No.	Filter Group Master	Filter Vendor	Filter Locat... Code	Design Filter	Item Group Filter	Gender Filter	Item Statistics Group 4 Filter	Item Statistics Group 5 Filter	Filter Item Cate... Code	Brand Filter	Season Filter	Filter Production Series	Order per Avail. Date	Order per Prod... Series	Order per Master	Order per Locat...	Order per MRP Resp...	Order per VarDi... Y-Axis	Order per VarDi... X-Axis	Order per Group Master
Production Collecting Order	2200	PCO per Master 2200/Color	2200					0	0	0	0	0					☐	☐	☐	☐	☐	☑	☐	☐
Production Collecting Order	3000	PCO per Master Chair	30*					0	0	0	0	0					☐	☐	☑	☑	☐	☐	☐	☐
Production Collecting Order	M31	PCO per Master Table Top	M31*					0	0	0	0	0					☐	☐	☑	☑	☐	☐	☐	☐
Production Collecting Order	M32	PCO per Master Sofa Parts	M32*					0	0	0	0	0					☐	☐	☑	☑	☐	☐	☐	☐
Production Collecting Order	M33	PCO all Cabinet Materials	M33*					0	0	0	0	0					☐	☐	☐	☑	☐	☐	☐	☐
Production Collecting Order	M39*	PCO per Master Furniture Mat.	M39*					0	0	0	0	0					☐	☐	☑	☑	☐	☐	☐	☐
Production Collecting Order	SHOE	PCO all Shoes						0	0	0	0	0		SHOES			☐	☑	☐	☑	☐	☐	☐	☐
Purchase	M20	Order for all Fabrics						0	910	0	0	0					☐	☐	☐	☑	☑	☐	☐	☐
Purchase	M21	Order for all Leathers						0	920	0	0	0					☐	☐	☐	☑	☑	☐	☐	☐

SALES ORDERS

SALES ORDER 0100001

For Customer *2000* without any **Order Type** or **Collection** and Sales Lines with **Location** *BLUE*:

2200	**Grace Bomber**	**72**	**69,00**	**35,99**	**2.591,28**

	4	6	8	10	12	14	16	
01 White	5	10	10	10	5	5		69,00
30 Yellow	3	6	6	6	4	2		69,00

2100	**Lily Blouse**	**32**	**69,00**	**35,99**	**1.151,68**

	XS	S	M	L	XL	XXL	3XL	
20 Royal Blue	1	2	3	2	1			69,00
70 Red	2	3	4	4	4	3	3	69,00

3100062423	**Dining Table Artemis**	4	1.299,00	731,50	2.926,00
	Laminate Color	Pale Gold			
	Legs	Oak Black			
	Size	110 x 240			

2310	**Freya Dress**	**37**	**109,00**	**55,00**	**2.035,00**

	36	38	40	42	44	46	48	50	52	
60 Forest Green		4	4	7	7	7	4	4		109,00

SALES ORDER 0100002

For Customer *2010* without any **Order Type** or **Collection** and Sales Lines with **Location** *SHOEPROD***:**

No.	Description	Quantity	List Price	Unit Price	Amount
2100	Lily Blouse	18	87,20	45,99	827,82

	XS	S	M	L	XL	XXL	3XL	
20 Royal Blue		2	4	4	2			87,20
73 Pink		1	2	2	1			87,20

Total	827,82

SOME SCENARIO'S

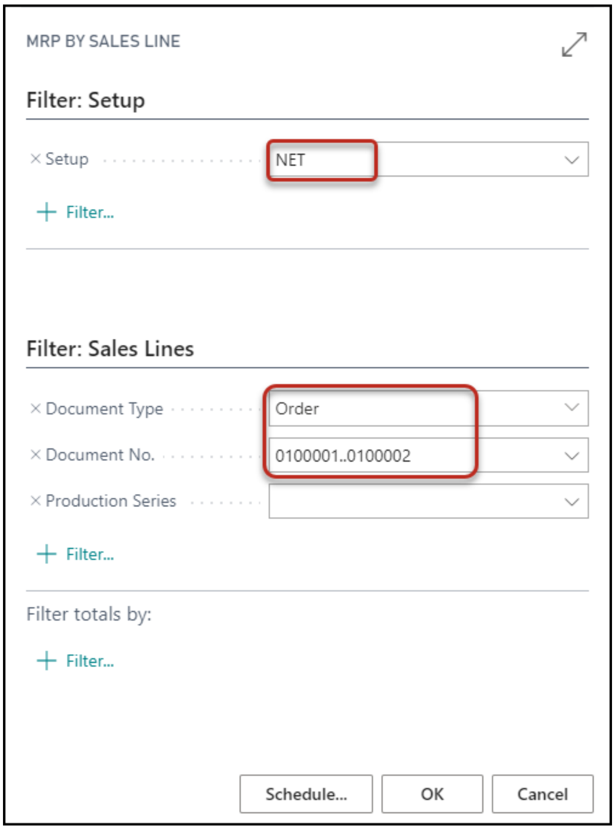
In this Chapter, we will show some scenario's (especially regarding Locations) based on the data in the **CRONUS TRIMIT W1 Ltd.** demo company and the Extra Data.

For every scenario, we started again with a 'clean' demo company + Extra Data

SCENARIO 1 – MRP BY SALES LINES

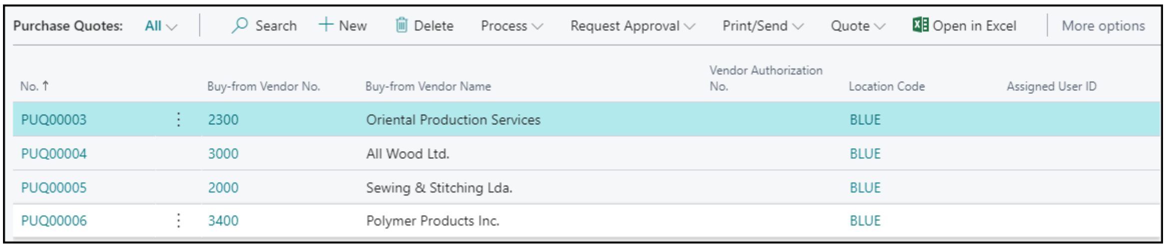
You want to create immediately Purchase Requisitions and Production Orders based on the MRP Calculation and you do not care about different Locations for shipping; you will handle that afterwards – if necessary. So, the calculation for what to buy/produce is based on quantities over ALL Locations.

Run the **MRP By Sales Lines** for the Sales Orders *0100001..0100002* and und use the **MRP Setup** *NET.*



RESULT

a. Four **Purchase Requisitions.** The **Location Code** came from the **Location Code** of the Vendors!!!



No. ↑	Buy-from Vendor No.	Buy-from Vendor Name	Vendor Authorization No.	Location Code	Assigned User ID
PUQ00003	2300	Oriental Production Services		BLUE	
PUQ00004	3000	All Wood Ltd.		BLUE	
PUQ00005	2000	Sewing & Stitching Lda.		BLUE	
PUQ00006	3400	Polymer Products Inc.		BLUE	

b. Many **Production Orders** with **Document Type** *Suggestion* and **MRP Method** *Net* without any **Location Code** in the Header or the Component Lines: 1 Production Order per Item.

Production Orders: All | Search | New | Delete | Finish | Job Card... | Release Prod. Order | Archive Order | Check Availability | Inventory Profile | Open in Excel

Document Type	No. ↑	MRP Method	Item No.	Item Description	Item Description 2	Production Series	Status	Start Date	End Date	Quantity to Produce	Outstanding Quantity (Base)	Init Or Sta
Suggestion	PI000001	Net	21002001	Lily Blouse	Royal Blue,XS		New	23-11-2019	23-1-2020	1	1	
Suggestion	PI000002	Net	21007001	Lily Blouse	Red,XS		New	30-11-2019	30-1-2020	1	1	
Suggestion	PI000003	Net	21007006	Lily Blouse	Red,XXL		New	23-11-2019	23-1-2020	6	6	
Suggestion	PI000004	Net	21007006	Lily Blouse	Red,XXL		New	30-11-2019	30-1-2020	2	2	
Suggestion	PI000005	Net	21007007	Lily Blouse	Red,3XL		New	23-11-2019	23-1-2020	3	3	
Suggestion	PI000006	Net	21007007	Lily Blouse	Red,3XL		New	30-11-2019	30-1-2020	1	1	
Suggestion	PI000007	Net	22000104	Grace Bomber	White,4		New	23-12-2019	23-1-2020	5	5	
Suggestion	PI000008	Net	22000106	Grace Bomber	White,6		New	23-12-2019	23-1-2020	9	9	
Suggestion	PI000009	Net	22000108	Grace Bomber	White,8		New	23-12-2019	23-1-2020	8	8	
Suggestion	PI000010	Net	22000110	Grace Bomber	White,10		New	23-12-2019	23-1-2020	8	8	
Suggestion	PI000011	Net	22000112	Grace Bomber	White,12		New	23-12-2019	23-1-2020	2	2	
Suggestion	PI000012	Net	22000114	Grace Bomber	White,14		New	23-12-2019	23-1-2020	3	3	
Suggestion	PI000013	Net	22003004	Grace Bomber	Yellow,4		New	23-12-2019	23-1-2020	2	2	
Suggestion	PI000014	Net	22003006	Grace Bomber	Yellow,6		New	23-12-2019	23-1-2020	4	4	
Suggestion	PI000015	Net	22003008	Grace Bomber	Yellow,8		New	23-12-2019	23-1-2020	3	3	
Suggestion	PI000016	Net	22003010	Grace Bomber	Yellow,10		New	23-12-2019	23-1-2020	3	3	
Suggestion	PI000017	Net	22003012	Grace Bomber	Yellow,12		New	23-12-2019	23-1-2020	2	2	
Suggestion	PI000018	Net	22003014	Grace Bomber	Yellow,14		New	23-12-2019	23-1-2020	1	1	
Suggestion	PI000019	Net	M392015110...	MDF Uncoated Board (made to ...	15 mm		New	23-1-2020	23-1-2020	4	4	
Suggestion	PI000020	Net	M392015200...	MDF Uncoated Board (made to ...	15 mm		New	23-1-2020	23-1-2020	4	4	

But also, a list of related Production Orders that have been created with **MRP Method** is *Order*.

Production Orders: All | Search | New | Delete | Finish | Job Card... | Release Prod. Order | Archive Order | Check Availability | Inventory Profile | Open in Excel | Action

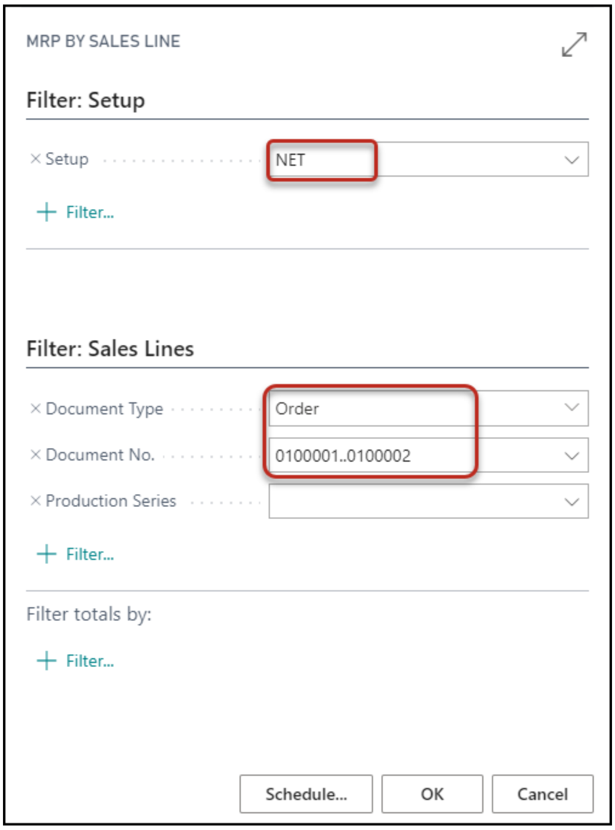
Docum... Type	No. ↑	MRP Method	Item No.	Item Description	Item Description 2	Pro... Series	Status	Start Date	End Date	Quantity to Produce	Outstanding Quantity (Base)	Initiating Order No. Start Level
Order	PO000001	Order	3100062423	Dining Table Artemis	Pale Gold,Oak Black,110 x 240		New	23-1-2020	23-1-2020	4	4	0100001
Order	PO000002	Order	M31000623	Table Top Laminated MDF Board ...	Pale Gold,110 x 240		New	23-1-2020	23-1-2020	4	4	0100001
Order	PO000003	Order	M300501200000	Chair Seat	Classic,Oak,Wood,Natural		New	3-1-2020	3-1-2020	100	100	PIB000001
Order	PO000004	Order	M300501200000	Chair Seat	Classic,Oak,Wood,Natural		New	28-2-2020	28-2-2020	50	50	PIB000002
Order	PO000005	Order	M300501200000	Chair Seat	Classic,Oak,Wood,Natural		New	7-3-2020	7-3-2020	65	65	PIB000003
Order	PO000006	Order	M300501200000	Chair Seat	Classic,Oak,Wood,Natural		New	4-4-2020	4-4-2020	27	27	PIB000004
Order	PO000007	Order	M300501200000	Chair Seat	Classic,Oak,Wood,Natural		New	23-1-2020	23-1-2020	10	10	PIB000005
Order	PO000008	Order	M300503300000	Chair Seat	Retro,Walnut,Wood,Natural		New	23-1-2020	23-1-2020	10	10	PIB000006
Order	PO000009	Order	M300501205540	Chair Seat	Classic,Oak,Leather,Brown		New	20-2-2020	20-2-2020	320	320	PO001
Order	POB000001	Order	5010	Chair Pollux (3110)	_		New	23-1-2020	23-1-2020	450	450	PO001

c. No new **Production Collecting Orders.** MRP Limitations are only applicable by using the MRP Actions!

SCENARIO 2 – MRP BY SALES LINES / RUN BY MULTIPLE LOCATIONS

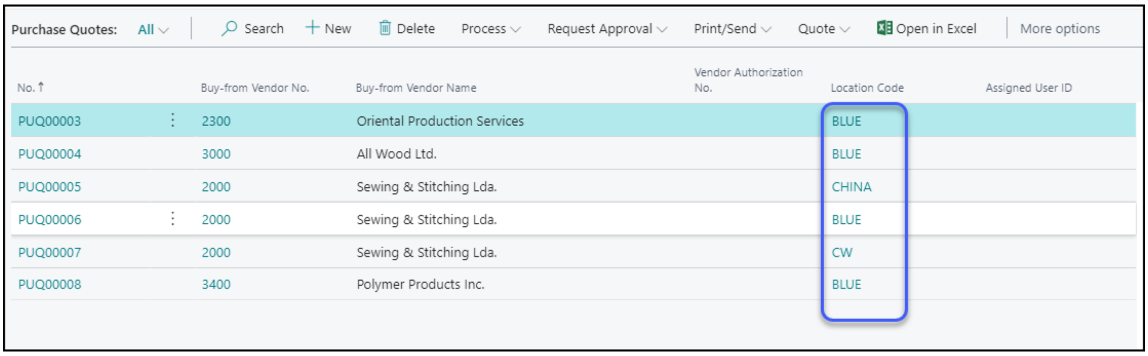
You want to create immediately Purchase Requisitions and Production Orders based on the MRP Calculation and these orders needs to be based on the shipping Location Code in the Sales Lines. So, the calculation for what to buy/produce is based on quantities calculated per Location.

Run the **MRP By Sales Lines** for the Sales Orders *0100001..0100002* and und use the **MRP Setup** *NET*. Change in the **MRP Setup** *NET* the field **Run by Multiple Locations** to ☑.



RESULT

a. Six **Purchase Requisitions.** The **Location Code** came from the **Location Code** of the Sales Lines!!! Therefore, we now have three Requisitions for Vendor *2000.*



No. ↑	Buy-from Vendor No.	Buy-from Vendor Name	Vendor Authorization No.	Location Code	Assigned User ID
PUQ00003	2300	Oriental Production Services		BLUE	
PUQ00004	3000	All Wood Ltd.		BLUE	
PUQ00005	2000	Sewing & Stitching Lda.		CHINA	
PUQ00006	2000	Sewing & Stitching Lda.		BLUE	
PUQ00007	2000	Sewing & Stitching Lda.		CW	
PUQ00008	3400	Polymer Products Inc.		BLUE	

b. Many **Production Orders** with **Document Type** *Suggestion* and **MRP Method** *Net* with a **Location Code** in the Header (based on the Location Code of the Sales Lines) and the same **Location Code** in the Component Lines. Therefore, you could get several Production Orders for the same Item but with different Locations.

Production Orders: All | Search | New | Delete | Finish | Job Card... | Release Prod. Order | Archive Order | Check Availability | Inventory Profile | Open in Excel | Actions

Document Type	No.	MRP Method	Item No.	Item Description	Item Description 2	Pro... Series	Status	Start Date	End Date	Quantity to Produce	Outstanding Quantity (Base)	Initiatin Order N Start Le
Suggestion	PI000001	Net	21002001	Lily Blouse	Royal Blue,XS		New	23-11-2019	23-1-2020	1	1	
Suggestion	PI000002	Net	21007001	Lily Blouse	Red,XS		New	30-11-2019	30-1-2020	1	1	
Suggestion	PI000003	Net	21007003	Lily Blouse	Red,M		New	23-11-2019	23-1-2020	1	1	
Suggestion	PI000004	Net	21007004	Lily Blouse	Red,L		New	23-11-2019	23-1-2020	1	1	
Suggestion	PI000005	Net	21007005	Lily Blouse	Red,XL		New	23-11-2019	23-1-2020	2	2	
Suggestion	PI000006	Net	21007006	Lily Blouse	Red,XXL		New	23-11-2019	23-1-2020	2	2	
Suggestion	PI000007	Net	21007006	Lily Blouse	Red,XXL		New	23-11-2019	23-1-2020	4	4	
Suggestion	PI000008	Net	21007006	Lily Blouse	Red,XXL		New	30-11-2019	30-1-2020	2	2	
Suggestion	PI000009	Net	21007007	Lily Blouse	Red,3XL		New	23-11-2019	23-1-2020	2	2	
Suggestion	PI000010	Net	21007007	Lily Blouse	Red,3XL		New	23-11-2019	23-1-2020	1	1	
Suggestion	PI000011	Net	21007007	Lily Blouse	Red,3XL		New	30-11-2019	30-1-2020	1	1	
Suggestion	PI000012	Net	22000104	Grace Bomber	White,4		New	23-12-2019	23-1-2020	5	5	

But also, a list of related Production Orders that have been created with **MRP Method** is *Order;* this was not different from Scenario 1.

Production Orders: All | Search | New | Delete | Finish | Job Card... | Release Prod. Order | Archive Order | Check Availability | Inventory Profile | Open in Excel | Action

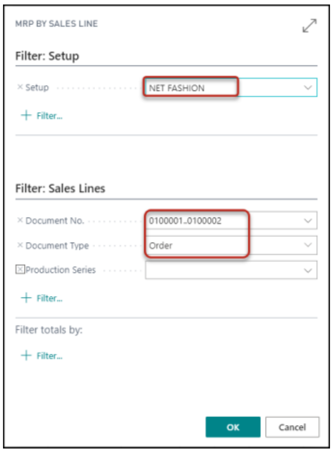
Docum... Type	No.	MRP Method	Item No.	Item Description	Item Description 2	Pro... Series	Status	Start Date	End Date	Quantity to Produce	Outstanding Quantity (Base)	Initiating Order No. Start Level
Order	PO000001	Order	3100062423	Dining Table Artemis	Pale Gold,Oak Black,110 x 240		New	23-1-2020	23-1-2020	4	4	0100001
Order	PO000002	Order	M31000623	Table Top Laminated MDF Board ...	Pale Gold,110 x 240		New	23-1-2020	23-1-2020	4	4	0100001
Order	PO000003	Order	M300501200000	Chair Seat	Classic,Oak,Wood,Natural		New	3-1-2020	3-1-2020	100	100	PIB000001
Order	PO000004	Order	M300501200000	Chair Seat	Classic,Oak,Wood,Natural		New	28-2-2020	28-2-2020	50	50	PIB000002
Order	PO000005	Order	M300501200000	Chair Seat	Classic,Oak,Wood,Natural		New	7-3-2020	7-3-2020	65	65	PIB000003
Order	PO000006	Order	M300501200000	Chair Seat	Classic,Oak,Wood,Natural		New	4-4-2020	4-4-2020	27	27	PIB000004
Order	PO000007	Order	M300501200000	Chair Seat	Classic,Oak,Wood,Natural		New	23-1-2020	23-1-2020	10	10	PIB000005
Order	PO000008	Order	M300503300000	Chair Seat	Retro,Walnut,Wood,Natural		New	23-1-2020	23-1-2020	10	10	PIB000006
Order	PO000009	Order	M300501205540	Chair Seat	Classic,Oak,Leather,Brown		New	20-2-2020	20-2-2020	320	320	PO001
Order	POB000001	Order	5010	Chair Pollux (3110)	_		New	23-1-2020	23-1-2020	450	450	PO001

c. No new **Production Collecting Orders.** MRP Limitations are only applicable by using the MRP Actions!

SCENARIO 3 – MRP ACTIONS WITH NET FASHION - 1

You want to get an overview of the suggestions for Purchase and Production Orders before creating these Orders and you do not care about different Locations for shipping; you will handle that afterwards – if necessary. So, the calculation for what to buy/produce is based on quantities over ALL Locations.
In addition, you have setup rules for creating Production Collection Orders (PCO's) and Purchase Orders in the MRP Limitations.

In the **MRP Actions,** run the **MRP By Sales Line** for the Sales Order *0100001..0100002* and use the **MRP Setup** *NET FASHION*.



RESULT

a. You see the **MRP Actions**: one line per Item and the **Assign Location Code** is empty – unless you have a Location Code in the Vendor Card, so the Purchase Order gets this Location.

Low-Level Code	Type	Item No.	Item Description	Item Description 2	Approve	Action	Calc. Base Cha...	Post...	Existing Quantity	Replacement Quantity	Difference	Unit of Measure Code	Replacement Order No.	Replacement Prod. Collect. Order No.	Assign Location Code	Replacement Buy-from Vendor No.	Replace Expected Receipt
1	Production Order	21002001	Lily Blouse	Royal Blue,XS	☑	New Order	☐	☐	0,00	1,00	1,00	PCS	_	_			
1	Production Order	21007001	Lily Blouse	Red,XS	☑	New Order	☐	☐	0,00	1,00	1,00	PCS	_	_			
1	Production Order	21007006	Lily Blouse	Red,XXL	☑	New Order	☐	☐	0,00	8,00	8,00	PCS	_	_			
1	Production Order	21007007	Lily Blouse	Red,3XL	☑	New Order	☐	☐	0,00	4,00	4,00	PCS	_	_			
1	Production Order	21007302	Lily Blouse	Pink,S	☑	New Order	☐	☐	0,00	3,00	3,00	PCS	_	_			
1	Production Order	21007303	Lily Blouse	Pink,M	☑	New Order	☐	☐	0,00	4,00	4,00	PCS	_	_			
1	Production Order	21007304	Lily Blouse	Pink,L	☑	New Order	☐	☐	0,00	4,00	4,00	PCS	_	_			
1	Production Order	21007305	Lily Blouse	Pink,XL	☑	New Order	☐	☐	0,00	11,00	11,00	PCS	_	_			
1	Production Order	22000104	Grace Bomber	White,4	☑	New Order	☐	☐	0,00	5,00	5,00	PCS	_	_			
1	Production Order	22000106	Grace Bomber	White,6	☑	New Order	☐	☐	0,00	9,00	9,00	PCS	_	_			
1	Production Order	22000108	Grace Bomber	White,8	☑	New Order	☐	☐	0,00	8,00	8,00	PCS	_	_			
1	Production Order	22000110	Grace Bomber	White,10	☑	New Order	☐	☐	0,00	8,00	8,00	PCS	_	_			
1	Production Order	22000112	Grace Bomber	White,12	☑	New Order	☐	☐	0,00	2,00	2,00	PCS	_	_			
1	Production Order	22000114	Grace Bomber	White,14	☑	New Order	☐	☐	0,00	3,00	3,00	PCS	_	_			
1	Production Order	22003004	Grace Bomber	Yellow,4	☑	New Order	☐	☐	0,00	2,00	2,00	PCS	_	_			
1	Production Order	22003006	Grace Bomber	Yellow,6	☑	New Order	☐	☐	0,00	4,00	4,00	PCS	_	_			

You can change the **Replacement Quantity** and other fields before posting (Carry Out Action Message) and after clicking ***Actions, Post Lines, Post All Approve***, it could look like:

Low-Level Code	Type	Item No.	Item Description	Item Description 2	Approve	Action	Calc. Base Cha...	Post...	Existing Quantity	Replacement Quantity	Difference	Unit of Measure Code	Replacement Order No.	Replacement Prod. Collect. Order No.	Assign Location Code	Replacement Buy-from Vendor No.	Replacement Expected Receipt Da
1	Production Order	22000108	Grace Bomber	White,8	☑	New Order	☐	☑	0,00	8,00	8,00	PCS	PO000012	PCO00001			
1	Production Order	22000110	Grace Bomber	White,10	☑	New Order	☐	☑	0,00	8,00	8,00	PCS	PO000013	PCO00001			
1	Production Order	22000112	Grace Bomber	White,12	☑	New Order	☐	☑	0,00	2,00	2,00	PCS	PO000014	PCO00001			
1	Production Order	22000114	Grace Bomber	White,14	☑	New Order	☐	☑	0,00	3,00	3,00	PCS	PO000015	PCO00001			
1	Production Order	22003004	Grace Bomber	Yellow,4	☑	New Order	☐	☑	0,00	2,00	2,00	PCS	PO000016	PCO00002			
1	Production Order	22003006	Grace Bomber	Yellow,6	☑	New Order	☐	☑	0,00	4,00	4,00	PCS	PO000017	PCO00002			
1	Production Order	22003008	Grace Bomber	Yellow,8	☑	New Order	☐	☑	0,00	3,00	3,00	PCS	PO000018	PCO00002			
1	Production Order	22003010	Grace Bomber	Yellow,10	☑	New Order	☐	☑	0,00	3,00	3,00	PCS	PO000019	PCO00002			
1	Production Order	22003012	Grace Bomber	Yellow,12	☑	New Order	☐	☑	0,00	2,00	2,00	PCS	PO000020	PCO00002			
1	Production Order	22003014	Grace Bomber	Yellow,14	☑	New Order	☐	☑	0,00	1,00	1,00	PCS	PO000021	PCO00002			
3	Production Order	M392015110...	MDF Uncoated Board (made to me...	15 mm	☑	New Order	☐	☑	0,00	4,00	4,00	PCS	PO000022	PCO00003		3000	
3	Production Order	M392015200...	MDF Uncoated Board (made to me...	15 mm	☑	New Order	☐	☑	0,00	4,00	4,00	PCS	PO000023	PCO00003		3000	
4	Purchase Order	23106038	Freya Dress	Forest Green,38	☑	New Order	☐	☑	0,00	2,00	2,00	PCS	0200001	_	BLUE	2300	7-9-202
4	Purchase Order	23106040	Freya Dress	Forest Green,40	☑	New Order	☐	☑	0,00	3,00	3,00	PCS	0200001	_	BLUE	2300	7-9-202
4	Purchase Order	23106042	Freya Dress	Forest Green,42	☑	New Order	☐	☑	0,00	2,00	2,00	PCS	0200001	_	BLUE	2300	7-9-202
4	Purchase Order	23106044	Freya Dress	Forest Green,44	☑	New Order	☐	☑	0,00	1,00	1,00	PCS	0200001	_	BLUE	2300	7-9-202

b. Five new **Purchase Orders.** The **Location Code** came from the **Location Code** of the Vendors!!!

Purchase Orders: All | Search | New | Delete | Print/Send | Order | Release | Posting | Navigate | Open in Excel | More options

No. ↑	Buy-from Vendor No.	Buy-from Vendor Name	Vendor Authorization No.	Order Type	Collection No.	Location Code	Assigned User ID	Document Date	Status	Amount	Amount Including VAT
0200001	2300	Oriental Production Services				BLUE		6-9-2020	Open	284,06	284,06
0200002	3000	All Wood Ltd.				BLUE		6-9-2020	Open	584,00	730,00
0200003	2000	Sewing & Stitching Lda.				BLUE		6-9-2020	Open	15,43	15,43
0200004	3400	Polymer Products Inc.				BLUE		6-9-2020	Open	70,00	87,50
0200005	2000	Sewing & Stitching Lda.				BLUE		6-9-2020	Open	873,71	873,71

c. Many new **Production Orders** with **Document Type** *Order* and **MRP Method** *Net, Order* and *Production Collection Order* (based on the **MRP Limitations**) without any **Location Code** in the Header or the Component Lines: 1 Production Order per Item.

Production Orders: All | Search | New | Delete | Finish | Job Card... | Release Prod. Order | Archive Order | Check Availability | Inventory Profile | Open in Excel | Ac

Document Type	No. ↑	MRP Method	Item No.	Item Description	Item Description 2	Pro... Series	Status	Start Date	End Date	Quantity to Produce	Outsta Quantity
Order	PI000001	Net	21002001	Lily Blouse	Royal Blue,XS		New	6-7-2020	6-9-2020	1	
Order	PI000002	Net	21007001	Lily Blouse	Red,XS		New	6-7-2020	6-9-2020	1	
Order	PI000003	Net	21007006	Lily Blouse	Red,XXL		New	6-7-2020	6-9-2020	8	
Order	PI000004	Net	21007007	Lily Blouse	Red,3XL		New	6-7-2020	6-9-2020	4	
Order	PI000005	Net	21007302	Lily Blouse	Pink,S		New	6-7-2020	6-9-2020	3	
Order	PI000006	Net	21007303	Lily Blouse	Pink,M		New	6-7-2020	6-9-2020	4	
Order	PI8000006	Manual	5000033020	Chair Castor (3100)	Retro,Walnut,Oil		New	23-1-2020	23-1-2020	10	
Order	PO000001	Order	3100062423	Dining Table Artemis	Pale Gold,Oak Black,110 x 240		New	23-1-2020	23-1-2020	4	
Order	PO000002	Order	M31000623	Table Top Laminated MDF Board ...	Pale Gold,110 x 240		New	23-1-2020	23-1-2020	4	
Order	PO000003	Order	M300501200000	Chair Seat	Classic,Oak,Wood,Natural		New	3-1-2020	3-1-2020	100	
Order	PO000004	Order	M300501200000	Chair Seat	Classic,Oak,Wood,Natural		New	28-2-2020	28-2-2020	50	
Order	PO000009	Order	M300501205540	Chair Seat	Classic,Oak,Leather,Brown		New	20-2-2020	20-2-2020	320	
Order	PO000010	Production Collecting Order	22000104	Grace Bomber	White,4		New	6-8-2020	6-9-2020	5	
Order	PO000011	Production Collecting Order	22000106	Grace Bomber	White,6		New	6-8-2020	6-9-2020	9	
Order	PO000012	Production Collecting Order	22000108	Grace Bomber	White,8		New	6-8-2020	6-9-2020	8	
Order	PO000013	Production Collecting Order	22000110	Grace Bomber	White,10		New	6-8-2020	6-9-2020	8	
Order	PO000014	Production Collecting Order	22000112	Grace Bomber	White,12		New	6-8-2020	6-9-2020	2	
Order	PO000015	Production Collecting Order	[illegible]	Grace Bomber	White,[illegible]		New	6-8-2020	6-9-2020	[illegible]	
Order	PO000020	Production Collecting Order	[illegible]	Grace Bomber	Yellow,12		New	6-8-2020	6-9-2020	[illegible]	
Order	PO000021	Production Collecting Order	22003014	Grace Bomber	Yellow,14		New	6-8-2020	6-9-2020	1	
Order	PO000022	Production Collecting Order	M39201511000...	MDF Uncoated Board (made to ...	15 mm		New	6-9-2020	6-9-2020	4	
Order	PO000023	Production Collecting Order	M39201520001...	MDF Uncoated Board (made to ...	15 mm		New	6-9-2020	6-9-2020	4	

d. Based on the MRP Limitations, also **Production Collecting Orders** have been created.

MRP Limitations: All | Search | New | Manage | Open in Excel

Type ↑	Limitation Code ↑	Description	Filter Master No.	Filter Item No.	Filter Group Master	Filter Vendor	Filter Loca... Code	Design Filter	Item Group Filter	Gender Filter	Item Statistics Group 4 Filter	Item Statistics Group 5 Filter	Filter Item Cate... Code	Brand Filter	Season Filter	Filter Production Series	Order per Avail. Date	Order per Prod... Series	Order per Mas...	Order per Loca...	Order per MRP Resp...	Order per VarD... Y-Axis	Order per VarD... X-Axis	Order per Group Master
Production Collecting Order	2200	PCO per Master 2200/Color	2200					0	0	0	0	0					☐	☐	☐	☐	☐	☑	☐	No
Production Collecting Order	3000	PCO per Master Chair	30*					0	0	0	0	0					☐	☐	☑	☑	☐	☐	☐	No
Production Collecting Order	M31	PCO per Master Table Top	M31*					0	0	0	0	0					☐	☐	☑	☑	☐	☐	☐	No
Production Collecting Order	M32	PCO per Master Sofa Parts	M32*					0	0	0	0	0					☐	☐	☑	☑	☐	☐	☐	No
Production Collecting Order	M33	PCO all Cabinet Materials	M33*					0	0	0	0	0					☐	☐	☐	☑	☐	☐	☐	No
Production Collecting Order	M39*	PCO per Master Furniture Mat.	M39*					0	0	0	0	0					☐	☐	☑	☑	☐	☐	☐	No
Production Collecting Order	SHOE	PCO all Shoes						0	0	0	0	0		SHOES			☐	☑	☐	☑	☐	☐	☐	No
Purchase	M20	Order for all Fabrics						0	910	0	0	0					☐	☐	☐	☑	☑	☐	☐	No
Purchase	M21	Order for all Leathers						0	920	0	0	0					☐	☐	☐	☑	☑	☐	☐	No

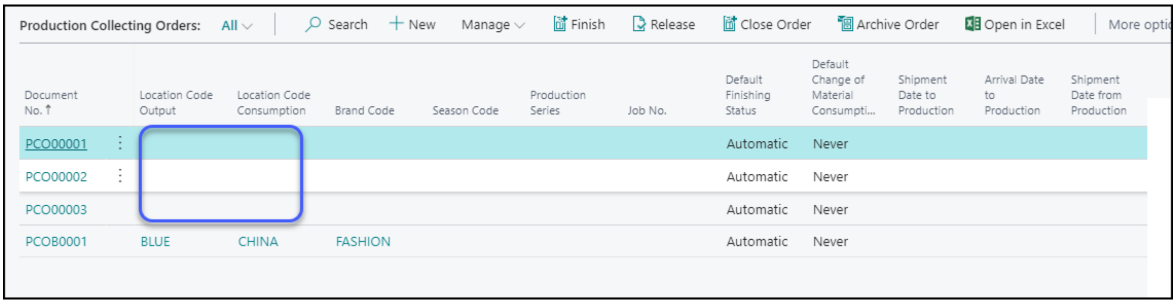
Based on these **MRP Limitations,** *three* PCO's have been created

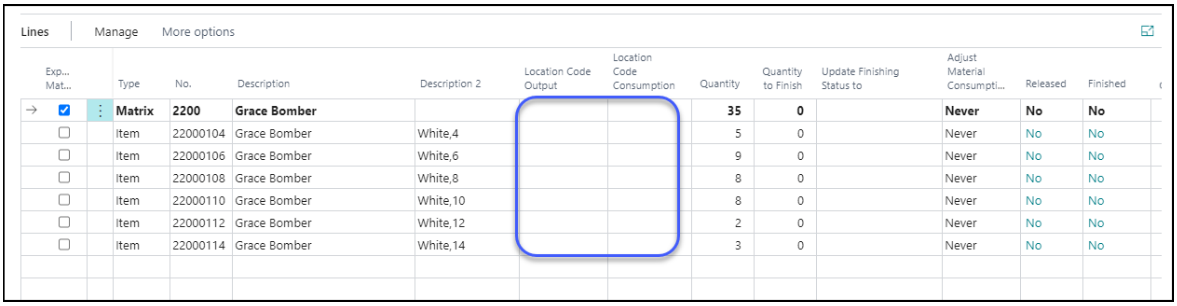
One for *2200* with color *10 White* based on **Limitation Code** *2200*

One for *2200* with color *30 Yellow* based on **Limitation Code** *2200*

One for *M3920* based on **Limitation Code** *M39**

For all created PCO's the fields of **Location Code Output** and **Location Code Consumption** are empty as well as the **Location Code** on the Lines of the PCO's and could be changed on the individual PCO's which will also have its effect on the Related Production Order and Component Lines.

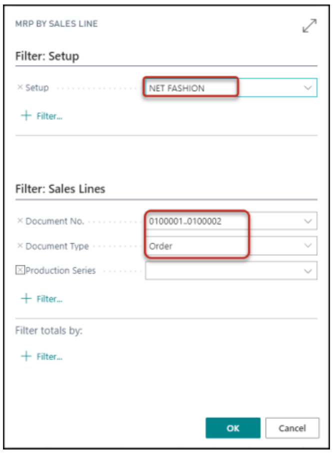




SCENARIO 4 – MRP ACTIONS WITH NET FASHION - 2

You want to get an overview of the suggestions for Purchase and Production Orders before creating these Orders and everything needs to take place in **Location Code** *BLUE***.**
In addition, you have setup rules for creating Production Collection Orders (PCO's) and Purchase Orders in the MRP Limitations.

In the **MRP Actions,** run the **MRP By Sales Line** for the Sales Order *0100001..0100002* and use the **MRP Setup** *NET FASHION*.
Change in the **MRP Setup** *NET FASHION* the field **Assign Location Code** to *BLUE***.**



The result would be the same as in Scenario 3 – MRP Actions with NET FASHION - 1 with only one difference: All Purchase Orders, Production Collection Order Lines, Production Orders and their Component Lines will have **Location Code** *BLUE***.**

RESULT

a. You see the MRP Actions: one line per Item and the **Assign Location Code** is *BLUE* for all Lines.

Low-Level Code ↑	Type ↑	Item No. ↑	Item Description	Item Description 2	Approve	Action	Calc... Base Cha...	Post...	Existing Quantity	Replacement Quantity	Difference	Unit of Measure Code	Replacement Order No.	Replacement Prod. Collect. Order No.	Assign Location Code	Replacement Buy-from Vendor No.	Replac Expect Receip
1	Production Order	21002001	Lily Blouse	Royal Blue,XS	☑	New Order	☐	☐	0,00	1,00	1,00	PCS	_	_	BLUE		
1	Production Order	21007001	Lily Blouse	Red,XS	☑	New Order	☐	☐	0,00	1,00	1,00	PCS	_	_	BLUE		
1	Production Order	21007006	Lily Blouse	Red,XXL	☑	New Order	☐	☐	0,00	8,00	8,00	PCS	_	_	BLUE		
1	Production Order	21007007	Lily Blouse	Red,3XL	☑	New Order	☐	☐	0,00	4,00	4,00	PCS	_	_	BLUE		
1	Production Order	21007302	Lily Blouse	Pink,S	☑	New Order	☐	☐	0,00	3,00	3,00	PCS	_	_	BLUE		
1	Production Order	21007303	Lily Blouse	Pink,M	☑	New Order	☐	☐	0,00	4,00	4,00	PCS	_	_	BLUE		
1	Production Order	21007304	Lily Blouse	Pink,L	☑	New Order	☐	☐	0,00	4,00	4,00	PCS	_	_	BLUE		
1	Production Order	21007305	Lily Blouse	Pink,XL	☑	New Order	☐	☐	0,00	11,00	11,00	PCS	_	_	BLUE		
1	Production Order	22000104	Grace Bomber	White,4	☑	New Order	☐	☐	0,00	5,00	5,00	PCS	_	_	BLUE		
1	Production Order	22000106	Grace Bomber	White,6	☑	New Order	☐	☐	0,00	9,00	9,00	PCS	_	_	BLUE		
1	Production Order	22000108	Grace Bomber	White,8	☑	New Order	☐	☐	0,00	8,00	8,00	PCS	_	_	BLUE		
1	Production Order	22000110	Grace Bomber	White,10	☑	New Order	☐	☐	0,00	8,00	8,00	PCS	_	_	BLUE		
1	Production Order	22000112	Grace Bomber	White,12	☑	New Order	☐	☐	0,00	2,00	2,00	PCS	_	_	BLUE		
1	Production Order	22000114	Grace Bomber	White,14	☑	New Order	☐	☐	0,00	3,00	3,00	PCS	_	_	BLUE		
1	Production Order	22003004	Grace Bomber	Yellow,4	☑	New Order	☐	☐	0,00	2,00	2,00	PCS	_	_	BLUE		
1	Production Order	22003006	Grace Bomber	Yellow,6	☑	New Order	☐	☐	0,00	4,00	4,00	PCS	_	_	BLUE		

You can change the **Replacement Quantity** and other fields before posting (Carry Out Action Message) and after clicking ***Actions, Post Lines, Post All Approve***, you can see the following results.

b. Five new **Purchase Orders.** The **Location Code** is *BLUE*

Purchase Orders: All | Search | New | Delete | Print/Send | Order | Release | Posting | Navigate | Open in Excel | More options

No. ↑	Buy-from Vendor No.	Buy-from Vendor Name	Vendor Authorization No.	Order Type	Collection No.	Location Code	Assigned User ID	Document Date	Status	Amount	Amount Including VAT
0200001	2300	Oriental Production Services				BLUE		6-9-2020	Open	1.274,06	1.274,06
0200002	3000	All Wood Ltd.				BLUE		6-9-2020	Open	584,00	730,00
0200003	2000	Sewing & Stitching Lda.				BLUE		6-9-2020	Open	15,43	15,43
0200004	3400	Polymer Products Inc.				BLUE		6-9-2020	Open	70,00	87,50
0200005	2000	Sewing & Stitching Lda.				BLUE		6-9-2020	Open	873,71	873,71
104001	30000	CoolWood Technologies						20-1-2020	Open	0,00	0,00
104002	40000	Lewis Home Furniture				GREEN		23-1-2020	Open	0,00	0,00

c. Many new **Production Orders** with **Document Type** *Order* and **MRP Method** *Production Collection Order* (based on the MRP Limitations) with **Location Code** *BLUE* in the Header and Component Lines: 1 Production Order per Item.

Production Orders: All | Search | New | Delete | Finish | Job Card... | Release Prod. Order | Archive Order | Check Availability | Inventory Profile | Open in Excel | Ac

Document Type	No. ↑	MRP Method	Item No.	Item Description	Item Description 2	Pro... Series	Status	Start Date	End Date	Quantity to Produce	Outsta Quantity
Order	PI000001	Net	21002001	Lily Blouse	Royal Blue,XS		New	6-7-2020	6-9-2020	1	
Order	PI000002	Net	21007001	Lily Blouse	Red,XS		New	6-7-2020	6-9-2020	1	
Order	PI000003	Net	21007006	Lily Blouse	Red,XXL		New	6-7-2020	6-9-2020	8	
Order	PI000004	Net	21007007	Lily Blouse	Red,3XL		New	6-7-2020	6-9-2020	4	
Order	PI000005	Net	21007302	Lily Blouse	Pink,S		New	6-7-2020	6-9-2020	3	
Order	PI000006	Net	21007303	Lily Blouse	Pink,M		New	6-7-2020	6-9-2020	4	
Order	PIB000006	Manual	5000033020	Chair Castor (3100)	Retro,Walnut,Oil		New	23-1-2020	23-1-2020	10	
Order	PO000001	Order	3100062423	Dining Table Artemis	Pale Gold,Oak Black,110 x 240		New	23-1-2020	23-1-2020	4	
Order	PO000002	Order	M31000623	Table Top Laminated MDF Board ...	Pale Gold,110 x 240		New	23-1-2020	23-1-2020	4	
Order	PO000003	Order	M300501200000	Chair Seat	Classic,Oak,Wood,Natural		New	3-1-2020	3-1-2020	100	
Order	PO000004	Order	M300501200000	Chair Seat	Classic,Oak,Wood,Natural		New	28-2-2020	28-2-2020	50	
Order	PO000009	Order	M300501205540	Chair Seat	Classic,Oak,Leather,Brown		New	20-2-2020	20-2-2020	320	
Order	PO000010	Production Collecting Order	22000104	Grace Bomber	White,4		New	6-8-2020	6-9-2020	5	
Order	PO000011	Production Collecting Order	22000106	Grace Bomber	White,6		New	6-8-2020	6-9-2020	9	
Order	PO000012	Production Collecting Order	22000108	Grace Bomber	White,8		New	6-8-2020	6-9-2020	8	
Order	PO000013	Production Collecting Order	22000110	Grace Bomber	White,10		New	6-8-2020	6-9-2020	8	
Order	PO000014	Production Collecting Order	22000112	Grace Bomber	White,12		New	6-8-2020	6-9-2020	2	
Order	PO000015	Production Collecting Order	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	
Order	[illegible]	Production Collecting Order	[illegible]	Grace Bomber	Yellow,12		New	[illegible]	[illegible]	[illegible]	
Order	PO000021	Production Collecting Order	22003014	Grace Bomber	Yellow,14		New	6-8-2020	6-9-2020	1	
Order	PO000022	Production Collecting Order	M39201511000...	MDF Uncoated Board (made to ...	15 mm		New	6-9-2020	6-9-2020	4	
Order	PO000023	Production Collecting Order	M39201520001...	MDF Uncoated Board (made to ...	15 mm		New	6-9-2020	6-9-2020	4	

d. Based on the MRP Limitations, also **Production Collecting Orders** have been created.

MRP Limitations: All | Search | New | Manage | Open in Excel

Type ↑	Limitation Code ↑	Description	Filter Master No.	Filter Item No.	Filter Group Master	Filter Vendor	Filter Loca... Code	Design Filter	Item Group Filter	Gender Filter	Item Statistics Group 4 Filter	Item Statistics Group 5 Filter	Filter Item Cate... Code	Brand Filter	Season Filter	Filter Production Series	Order per Avail. Date	Order per Prod... Series	Order per Mas...	Order per Loca...	Order per MRP Resp...	Order per VarD... Y-Axis	Order per VarD... X-Axis	Order per Group Master
Production Collecting Order	2200	PCO per Master 2200/Color	2200					0	0	0	0	0					☐	☐	☐	☐	☐	☑	☐	No
Production Collecting Order	3000	PCO per Master Chair	30*					0	0	0	0	0					☐	☐	☑	☑	☐	☐	☐	No
Production Collecting Order	M31	PCO per Master Table Top	M31*					0	0	0	0	0					☐	☐	☑	☑	☐	☐	☐	No
Production Collecting Order	M32	PCO per Master Sofa Parts	M32*					0	0	0	0	0					☐	☐	☑	☑	☐	☐	☐	No
Production Collecting Order	M33	PCO all Cabinet Materials	M33*					0	0	0	0	0					☐	☐	☐	☑	☐	☐	☐	No
Production Collecting Order	M39*	PCO per Master Furniture Mat.	M39*					0	0	0	0	0					☐	☐	☑	☑	☐	☐	☐	No
Production Collecting Order	SHOE	PCO all Shoes						0	0	0	0	0		SHOES			☐	☑	☐	☑	☐	☐	☐	No
Purchase	M20	Order for all Fabrics						0	910	0	0	0					☐	☐	☐	☑	☑	☐	☐	No
Purchase	M21	Order for all Leathers						0	920	0	0	0					☐	☐	☐	☑	☑	☐	☐	No

Based on these **MRP Limitations,** *three* PCO's have been created

One for *2200* with color *10 White* based on **Limitation Code** *2200*

One for *2200* with color *30 Yellow* based on **Limitation Code** *2200*

One for *M3920* based on **Limitation Code** *M39**

For all created PCO's the fields of **Location Code Output** and **Location Code Consumption** are still empty when there are matrices on the Lines, because we created them per Order and not per Location, but on the PCO Lines, the **Location Code Output** and **Location Code Consumption** will be filled with the **Assign Location Code** of the Action Lines of the MRP.

Production Collecting Orders: All | Search | New | Manage | Finish | Release | Close Order | Archive Order | Open in Excel | More o

Document No. ↑	Location Code Output	Location Code Consumption	Brand Code	Season Code	Production Series	Job No.	Default Finishing Status	Default Change of Material Consumpti...	Shipment Date to Production	Arrival Date to Production	Shipment Date from Production
PCO00001							Automatic	Never			
PCO00002							Automatic	Never			
PCO00003	BLUE	BLUE					Automatic	Never			
PCOB0001	BLUE	CHINA	FASHION				Automatic	Never			

Lines | Manage | More options

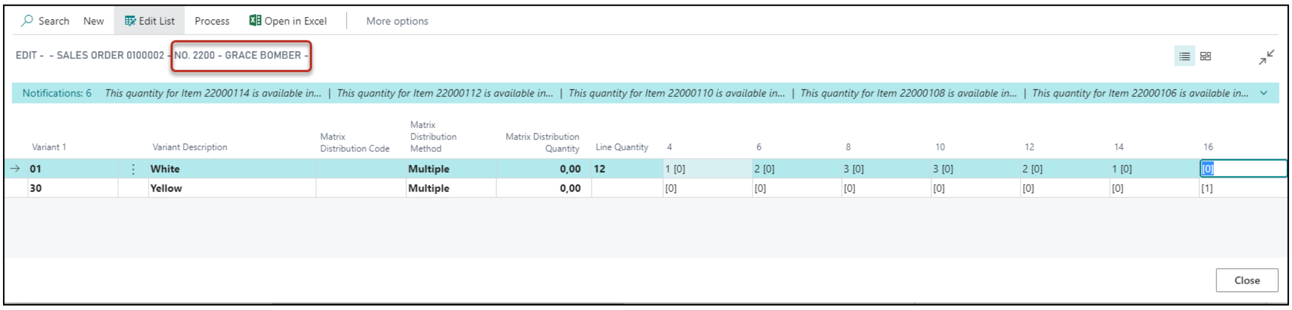
Exp... Mat...	Type	No.	Description	Description 2	Location Code Output	Location Code Consumption	Quantity	Quantity to Finish	Update Finishing Status to	Adjust Material Consumpti...	Released	Finished
☑	**Matrix**	**2200**	**Grace Bomber**		**BLUE**		**35**	**0**		**Never**	**No**	**No**
☐	Item	22000104	Grace Bomber	White,4	BLUE	BLUE	5	0		Never	No	No
☐	Item	22000106	Grace Bomber	White,6	BLUE	BLUE	9	0		Never	No	No
☐	Item	22000108	Grace Bomber	White,8	BLUE	BLUE	8	0		Never	No	No
☐	Item	22000110	Grace Bomber	White,10	BLUE	BLUE	8	0		Never	No	No
☐	Item	22000112	Grace Bomber	White,12	BLUE	BLUE	2	0		Never	No	No
☐	Item	22000114	Grace Bomber	White,14	BLUE	BLUE	3	0		Never	No	No

SCENARIO 5 – MRP ACTIONS WITH NET FASHION - 3

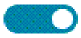
You want to get an overview of the suggestions for Purchase and Production Orders before creating these Orders and everything needs to take place in the Location based on the shipping Location of the Sales Orders.

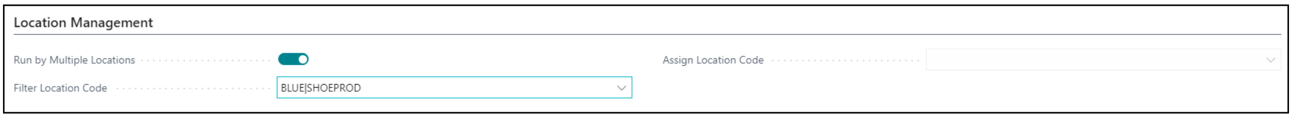
In addition, you have setup rules for creating Production Collection Orders (PCO's) and Purchase Orders in the MRP Limitations.

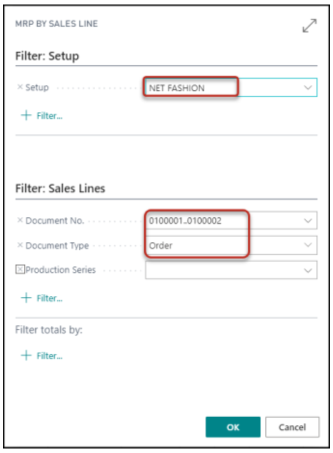
For this specific scenario we also added in Sales Order ***0100002*** a Matrix for *2200*:



In the **MRP Actions,** run the **MRP By Sales Line** for the Sales Order *0100001..0100002* and use the **MRP Setup** *NET FASHION*.

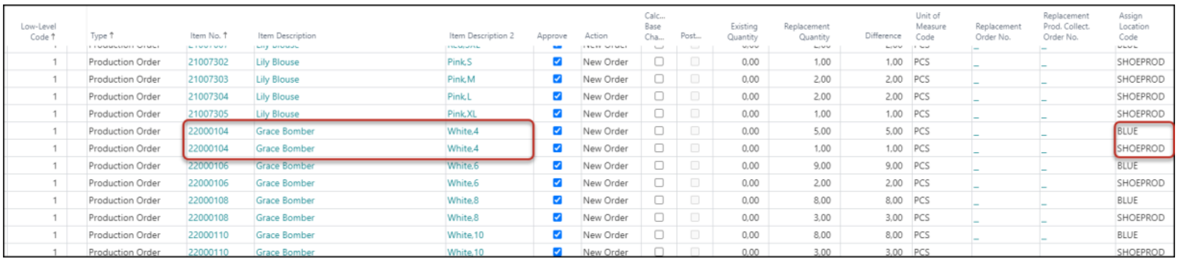
Change in the **MRP Setup** *NET FASHION* the field **Run by Multiple Locations** to  and **Filter Location Code** to *BLUE|SHOEPROD*.



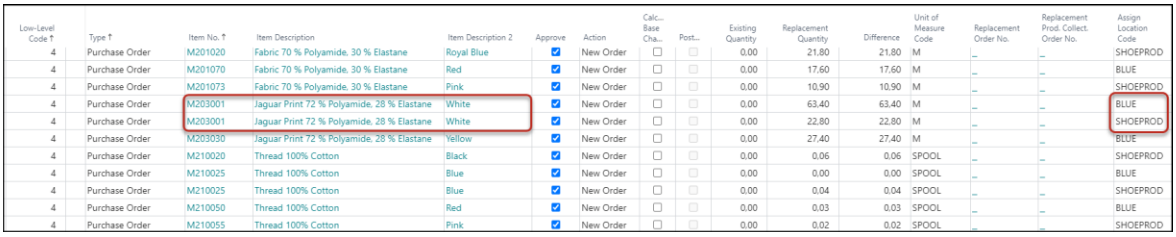


RESULT

a. You see the MRP Actions: several lines per Item and the **Assign Location Code** is based on the **Location Code** of the original Sales Lines. Even the quantities could be different as before, because also the Inventory is now checked based on that **Location Code**.



Low-Level Code	Type	Item No.	Item Description	Item Description 2	Approve	Action	Calc. Base Cha...	Post...	Existing Quantity	Replacement Quantity	Difference	Unit of Measure Code	Replacement Order No.	Replacement Prod. Collect. Order No.	Assign Location Code
1	Production Order	21007302	Lily Blouse	Pink,S	✓	New Order			0,00	1,00	1,00	PCS	_	_	SHOEPROD
1	Production Order	21007303	Lily Blouse	Pink,M	✓	New Order			0,00	2,00	2,00	PCS	_	_	SHOEPROD
1	Production Order	21007304	Lily Blouse	Pink,L	✓	New Order			0,00	2,00	2,00	PCS	_	_	SHOEPROD
1	Production Order	21007305	Lily Blouse	Pink,XL	✓	New Order			0,00	1,00	1,00	PCS	_	_	SHOEPROD
1	Production Order	22000104	Grace Bomber	White,4	✓	New Order			0,00	5,00	5,00	PCS	_	_	BLUE
1	Production Order	22000104	Grace Bomber	White,4	✓	New Order			0,00	1,00	1,00	PCS	_	_	SHOEPROD
1	Production Order	22000106	Grace Bomber	White,6	✓	New Order			0,00	9,00	9,00	PCS	_	_	BLUE
1	Production Order	22000106	Grace Bomber	White,6	✓	New Order			0,00	2,00	2,00	PCS	_	_	SHOEPROD
1	Production Order	22000108	Grace Bomber	White,8	✓	New Order			0,00	8,00	8,00	PCS	_	_	BLUE
1	Production Order	22000108	Grace Bomber	White,8	✓	New Order			0,00	3,00	3,00	PCS	_	_	SHOEPROD
1	Production Order	22000110	Grace Bomber	White,10	✓	New Order			0,00	8,00	8,00	PCS	_	_	BLUE
1	Production Order	22000110	Grace Bomber	White,10	✓	New Order			0,00	3,00	3,00	PCS			SHOEPROD



Low-Level Code	Type	Item No.	Item Description	Item Description 2	Approve	Action	Calc. Base Cha...	Post...	Existing Quantity	Replacement Quantity	Difference	Unit of Measure Code	Replacement Order No.	Replacement Prod. Collect. Order No.	Assign Location Code
4	Purchase Order	M201020	Fabric 70 % Polyamide, 30 % Elastane	Royal Blue	✓	New Order			0,00	21,80	21,80	M	_	_	SHOEPROD
4	Purchase Order	M201070	Fabric 70 % Polyamide, 30 % Elastane	Red	✓	New Order			0,00	17,60	17,60	M	_	_	BLUE
4	Purchase Order	M201073	Fabric 70 % Polyamide, 30 % Elastane	Pink	✓	New Order			0,00	10,90	10,90	M	_	_	SHOEPROD
4	Purchase Order	M203001	Jaguar Print 72 % Polyamide, 28 % Elastane	White	✓	New Order			0,00	63,40	63,40	M	_	_	BLUE
4	Purchase Order	M203001	Jaguar Print 72 % Polyamide, 28 % Elastane	White	✓	New Order			0,00	22,80	22,80	M	_	_	SHOEPROD
4	Purchase Order	M203030	Jaguar Print 72 % Polyamide, 28 % Elastane	Yellow	✓	New Order			0,00	27,40	27,40	M	_	_	BLUE
4	Purchase Order	M210020	Thread 100% Cotton	Black	✓	New Order			0,00	0,06	0,06	SPOOL	_	_	SHOEPROD
4	Purchase Order	M210025	Thread 100% Cotton	Blue	✓	New Order			0,00	0,00	0,00	SPOOL	_	_	BLUE
4	Purchase Order	M210025	Thread 100% Cotton	Blue	✓	New Order			0,00	0,04	0,04	SPOOL	_	_	SHOEPROD
4	Purchase Order	M210050	Thread 100% Cotton	Red	✓	New Order			0,00	0,03	0,03	SPOOL	_	_	BLUE
4	Purchase Order	M210055	Thread 100% Cotton	Pink	✓	New Order			0,00	0,02	0,02	SPOOL	_	_	SHOEPROD

You can change the **Replacement Quantity** and other fields before posting (Carry Out Action Message) and after clicking ***Post All Approved*** on ribbon *Actions,* you can see the following results.

Low-Level Code ↑	Type ↑	Item No. ↑	Item Description	Item Description 2	Approve	Action	Calc... Base Cha...	Post...	Existing Quantity	Replacement Quantity	Difference	Unit of Measure Code	Replacement Order No.	Replacement Prod. Collect. Order No.	Assign Location Code
1	Production Order	22000106	Grace Bomber	White,6	☑	New Order	☐	☑	0,00	2,00	2,00	PCS	PO000010	PCO00001	SHOEPROD
1	Production Order	22000108	Grace Bomber	White,8	☑	New Order	☐	☑	0,00	8,00	8,00	PCS	PO000005	PCO00001	BLUE
1	Production Order	22000108	Grace Bomber	White,8	☑	New Order	☐	☑	0,00	3,00	3,00	PCS	PO000011	PCO00001	SHOEPROD
1	Production Order	22000110	Grace Bomber	White,10	☑	New Order	☐	☑	0,00	8,00	8,00	PCS	PO000006	PCO00001	BLUE
1	Production Order	22000110	Grace Bomber	White,10	☑	New Order	☐	☑	0,00	3,00	3,00	PCS	PO000012	PCO00001	SHOEPROD
1	Production Order	22000112	Grace Bomber	White,12	☑	New Order	☐	☑	0,00	2,00	2,00	PCS	PO000007	PCO00001	BLUE
1	Production Order	22000112	Grace Bomber	White,12	☑	New Order	☐	☑	0,00	2,00	2,00	PCS	PO000013	PCO00001	SHOEPROD
1	Production Order	22000114	Grace Bomber	White,14	☑	New Order	☐	☑	0,00	3,00	3,00	PCS	PO000008	PCO00001	BLUE
1	Production Order	22000114	Grace Bomber	White,14	☑	New Order	☐	☑	0,00	1,00	1,00	PCS	PO000014	PCO00001	SHOEPROD
1	Production Order	22003004	Grace Bomber	Yellow,4	☑	New Order	☐	☑	0,00	2,00	2,00	PCS	PO000015	PCO00002	BLUE
1	Production Order	22003006	Grace Bomber	Yellow,6	☑	New Order	☐	☑	0,00	4,00	4,00	PCS	PO000016	PCO00002	BLUE
1	Production Order	22003008	Grace Bomber	Yellow,8	☑	New Order	☐	☑	0,00	3,00	3,00	PCS	PO000017	PCO00002	BLUE
1	Production Order	22003010	Grace Bomber	Yellow,10	☑	New Order	☐	☑	0,00	3,00	3,00	PCS	PO000018	PCO00002	BLUE

Low-Level Code ↑	Type ↑	Item No. ↑	Item Description	Item Description 2	Approve	Action	Calc... Base Cha...	Post...	Existing Quantity	Replacement Quantity	Difference	Unit of Measure Code	Replacement Order No.	Replacement Prod. Collect. Order No.	Assign Location Code
4	Purchase Order	M200099	Fabric 72 % Polyamide, 28 % Elastane	Black	☑	New Order	☐	☑	0,00	12,00	12,00	M	0200007	_	SHOEPROD
4	Purchase Order	M201020	Fabric 70 % Polyamide, 30 % Elastane	Royal Blue	☑	New Order	☐	☑	0,00	1,50	1,50	M	0200008	_	BLUE
4	Purchase Order	M201020	Fabric 70 % Polyamide, 30 % Elastane	Royal Blue	☑	New Order	☐	☑	0,00	21,80	21,80	M	0200007	_	SHOEPROD
4	Purchase Order	M201070	Fabric 70 % Polyamide, 30 % Elastane	Red	☑	New Order	☐	☑	0,00	17,60	17,60	M	0200008	_	BLUE
4	Purchase Order	M201073	Fabric 70 % Polyamide, 30 % Elastane	Pink	☑	New Order	☐	☑	0,00	10,90	10,90	M	0200007	_	SHOEPROD
4	Purchase Order	M203001	Jaguar Print 72 % Polyamide, 28 % Elastane	White	☑	New Order	☐	☑	0,00	63,40	63,40	M	0200008	_	BLUE
4	Purchase Order	M203001	Jaguar Print 72 % Polyamide, 28 % Elastane	White	☑	New Order	☐	☑	0,00	22,80	22,80	M	0200007	_	SHOEPROD
4	Purchase Order	M203030	Jaguar Print 72 % Polyamide, 28 % Elastane	Yellow	☑	New Order	☐	☑	0,00	27,40	27,40	M	0200008	_	BLUE
4	Purchase Order	M210020	Thread 100% Cotton	Black	☑	New Order	☐	☑	0,00	0,06	0,06	SPOOL	0200004	_	SHOEPROD
4	Purchase Order	M210025	Thread 100% Cotton	Blue	☑	New Order	☐	☑	0,00	0,00	0,00	SPOOL	0200005	_	BLUE
4	Purchase Order	M210025	Thread 100% Cotton	Blue	☑	New Order	☐	☑	0,00	0,04	0,04	SPOOL	0200004	_	SHOEPROD

b. Eight new **Purchase Orders.** The **Location Code** came from the **Location Code** of the Sales Lines.

No. ↑	Buy-from Vendor No.	Buy-from Vendor Name	Vendor Authorization No.	Order Type	Collection No.	Location Code	Assigned User ID
0200001	2300	Oriental Production Services				BLUE	
0200002	2300	Oriental Production Services				SHOEPROD	
0200003	3000	All Wood Ltd.				BLUE	
0200004	2000	Sewing & Stitching Lda.				SHOEPROD	
0200005	2000	Sewing & Stitching Lda.				BLUE	
0200006	3400	Polymer Products Inc.				BLUE	
0200007	2000	Sewing & Stitching Lda.				SHOEPROD	
0200008	2000	Sewing & Stitching Lda.				BLUE	
104001	30000	CoolWood Technologies					

c. Many new **Production Orders** with **Document Type** *Order* and **MRP Method** *Production Collection Order* (based on the MRP Limitations) in which the **Location Code** in the Header will be based on the Location Code of the Sales Lines: 1 Production Order per Item/Location. The Location Code on the Component Lines will also be filled with that same Location Code!

Document Type	No. ↑	MRP Method	Item No.	Item Description	Item Description 2	Pro... Series	Status	Start Date	End Date	Quantity to Produce	Outst... Quantity
Order	PI000001	Net	21002001	Lily Blouse	Royal Blue,XS		New	6-7-2020	6-9-2020	1	
Order	PI000002	Net	21002002	Lily Blouse	Royal Blue,S		New	6-7-2020	6-9-2020	2	
Order	PI000003	Net	21002003	Lily Blouse	Royal Blue,M		New	6-7-2020	6-9-2020	4	
Order	PI000004	Net	21002004	Lily Blouse	Royal Blue,L		New	6-7-2020	6-9-2020	4	
Order	PI000005	Net	21002005	Lily Blouse	Royal Blue,XL		New	6-7-2020	6-9-2020	2	
Order	PI000006	Net	21007003	Lily Blouse	Red,M		New	6-7-2020	6-9-2020	1	
Order	PI000007	Net	21007004	Lily Blouse	Red,L		New	6-7-2020	6-9-2020	1	
Order	PI000008	Net	21007005	Lily Blouse	Red,XL		New	6-7-2020	6-9-2020	2	
Order	PI000009	Net	21007006	Lily Blouse	Red,XXL		New	6-7-2020	6-9-2020	2	
Order	PI000010	Net	21007007	Lily Blouse	Red,3XL		New	6-7-2020	6-9-2020	2	
Order	PI000011	Net	21007302	Lily Blouse	Pink,S		New	6-7-2020	6-9-2020	1	
Order	PI000012	Net	21007303	Lily Blouse	Pink,M		New	6-7-2020	6-9-2020	2	
Order	PI000013	Net	21007304	Lily Blouse	Pink,L		New	6-7-2020	6-9-2020	2	
Order	PI000014	Net	21007305	Lily Blouse	Pink,XL		New	6-7-2020	6-9-2020	1	

Document Type	No. ↑	MRP Method	Item No.	Item Description	Item Description 2	Pro... Series	Status	Start Date	End Date	Quantity to Produce	Outstar Quantity (
Order	PIB000005	Manual	5000012000	Chair Castor	Classic,Oak,Natural		New	23-1-2020	23-1-2020	10	
Order	PIB000006	Manual	5000033020	Chair Castor	Retro,Walnut,Oil		New	23-1-2020	23-1-2020	10	
Order	PO000001	Order	3100062423	Dining Table Artemis	Pale Gold,Oak Black,110 x 240		New	6-9-2020	6-9-2020	4	
Order	PO000002	Order	M31000623	Table Top Laminated MDF Board ...	Pale Gold,110 x 240		New	6-9-2020	6-9-2020	4	
Order	PO000003	Production Collecting Order	22000104	Grace Bomber	White,4		New	6-8-2020	6-9-2020	5	
Order	PO000004	Production Collecting Order	22000106	Grace Bomber	White,6		New	6-8-2020	6-9-2020	9	
Order	PO000005	Production Collecting Order	22000108	Grace Bomber	White,8		New	6-8-2020	6-9-2020	8	
Order	PO000006	Production Collecting Order	22000110	Grace Bomber	White,10		New	6-8-2020	6-9-2020	8	
Order	PO000007	Production Collecting Order	22000112	Grace Bomber	White,12		New	6-8-2020	6-9-2020	2	
Order	PO000008	Production Collecting Order	22000114	Grace Bomber	White,14		New	6-8-2020	6-9-2020	3	
Order	PO000009	Production Collecting Order	22000104	Grace Bomber	White,4		New	6-8-2020	6-9-2020	1	
Order	PO000010	Production Collecting Order	22000106	Grace Bomber	White,6		New	6-8-2020	6-9-2020	2	
Order	PO000011	Production Collecting Order	22000108	Grace Bomber	White,8		New	6-8-2020	6-9-2020	3	
Order	PO000012	Production Collecting Order	22000110	Grace Bomber	White,10		New	6-8-2020	6-9-2020	3	
Order	PO000013	Production Collecting Order	22000112	Grace Bomber	White,12		New	6-8-2020	6-9-2020	2	
Order	PO000014	Production Collecting Order	22000114	Grace Bomber	White,14		New	6-8-2020	6-9-2020	1	
Order	PO000015	Production Collecting Order	22003004	Grace Bomber	Yellow,4		New	6-8-2020	6-9-2020	2	
Order	PO000016	Production Collecting Order	22003006	Grace Bomber	Yellow,6		New	6-8-2020	6-9-2020	4	
Order	PO000017	Production Collecting Order	22003008	Grace Bomber	Yellow,8		New	6-8-2020	6-9-2020	3	

d. Based on the MRP Limitations, also **Production Collecting Orders** have been created.

MRP Limitations: All | Search | + New | Manage | Open in Excel

Type ↑	Limitation Code ↑	Description	Filter Master No.	Filter Item No.	Filter Group Master	Filter Vendor	Filter Loca... Code	Design Filter	Item Group Filter	Gender Filter	Item Statistics Group 4 Filter	Item Statistics Group 5 Filter	Filter Item Cate... Code	Brand Filter	Season Filter	Filter Production Series	Order per Avail. Date	Order per Prod... Series	Order per Mas...	Order per Loca...	Order per MRP Resp...	Order per VarD... Y-Axis	Order per VarD... X-Axis	Order per Group Master
Production Collecting Order	2200	PCO per Master 2200/Color	2200					0	0	0	0	0					☐	☐	☐	☐	☐	☑	☐	No
Production Collecting Order	3000	PCO per Master Chair	30*					0	0	0	0	0					☐	☐	☑	☑	☐	☐	☐	No
Production Collecting Order	M31	PCO per Master Table Top	M31*					0	0	0	0	0					☐	☐	☑	☑	☐	☐	☐	No
Production Collecting Order	M32	PCO per Master Sofa Parts	M32*					0	0	0	0	0					☐	☐	☑	☑	☐	☐	☐	No
Production Collecting Order	M33	PCO all Cabinet Materials	M33*					0	0	0	0	0					☐	☐	☐	☑	☐	☐	☐	No
Production Collecting Order	M39*	PCO per Master Furniture Mat.	M39*					0	0	0	0	0					☐	☐	☑	☑	☐	☐	☐	No
Production Collecting Order	SHOE	PCO all Shoes						0	0	0	0	0		SHOES			☐	☑	☐	☑	☐	☐	☐	No
Purchase	M20	Order for all Fabrics						0	910	0	0	0					☐	☐	☐	☑	☑	☐	☐	No
Purchase	M21	Order for all Leathers						0	920	0	0	0					☐	☐	☐	☑	☑	☐	☐	No

Based on these **MRP Limitations,** *three* PCO's have been created

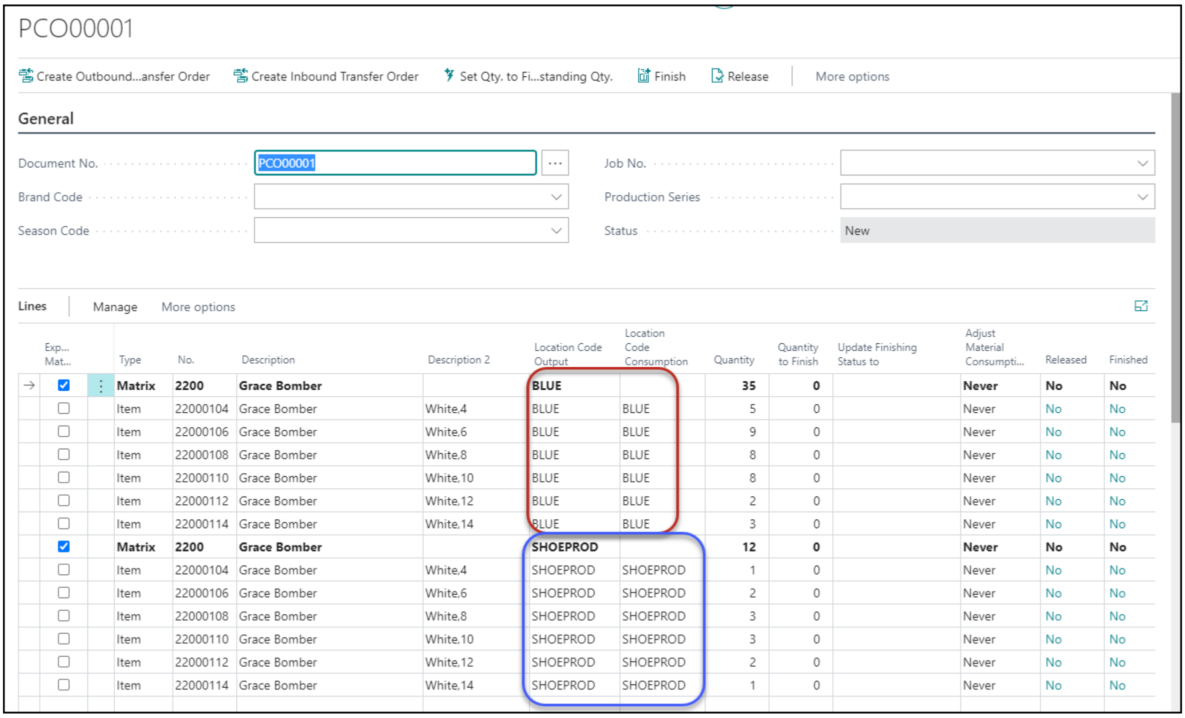
One for *2200* with color *10 White* based on **Limitation Code** *2200*

One for *2200* with color *30 Yellow* based on **Limitation Code** *2200*

One for *M3920* based on **Limitation Code** *M39**

For all created PCO's the fields of **Location Code Output** and **Location Code Consumption** are empty, but the **Location Code Output** and **Location Code Consumption** on the Lines will be based on the Location Code of the Sales Lines. This means, that in the same PCO, you could get several Matrix Lines for the same Master but with different Locations.

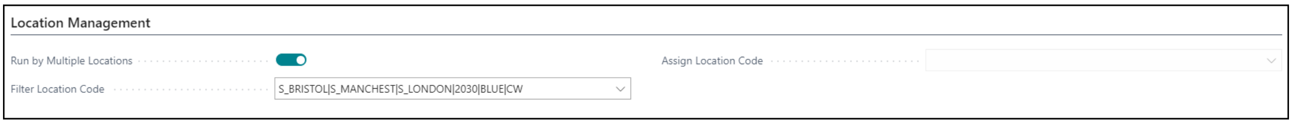
Document No. ↑	Location Code Output	Location Code Consumption	Brand Code	Season Cc
PCO00001				
PCO00002				
PCO00003	BLUE	BLUE		
PCOB0001	BLUE	CHINA	FASHION	



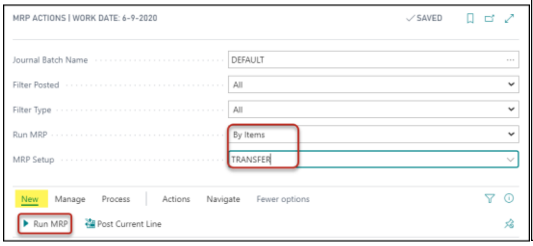
SCENARIO 6 – MRP ACTIONS WITH TRANSFER

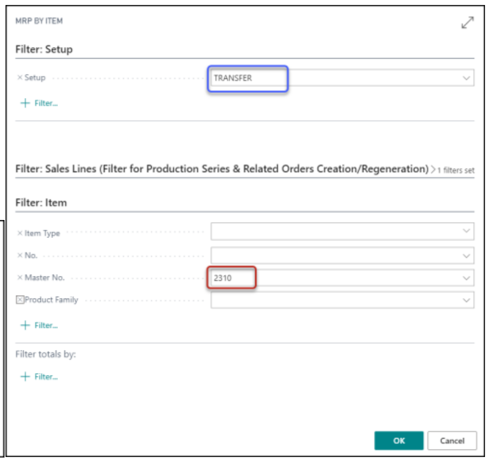
You are a company with three shops: **S_BRISTOL, S_LONDON, S_MANCHES,** and have setup minimum quantities in the SKUs of Masters based on these shops. To fulfil the demand for these Shops they will be delivered via a Transfer Order coming from Location *BLUE.*

In the **MRP Actions,** run the **MRP By Items** for the Master *2310* and use the **MRP Setup** *TRANSFER*, in which we have:



.





RESULT

a. You see the MRP Actions: several lines per Item and the **Assign Location Code** is based on the **Location Code** of the SKUs and the quantities are related to the fields in the SKUs. You are not only seeing suggestions for Transfer Orders, but also for Purchase Orders to fulfil the demand in the Locations from which the Transfers should take place.

Low-Level Code ↑	Type ↑	Item No. ↑	Item Description	Item Description 2	Approve	Action	Calc... Base Cha...	Post...	Existing Quantity	Replacement Quantity	Difference	Unit of Measure Code	Replacement Order No.	Replacement Prod. Collect. Order No.	Assign Location Code	Replacem Buy-from Vendor N
2	Purchase Order	23106042	Freya Dress	Forest Green,42	☑	New Order	☐	☐	0,00	9,00	9,00	PCS	_	_	BLUE	2300
2	Purchase Order	23106044	Freya Dress	Forest Green,44	☑	New Order	☐	☐	0,00	8,00	8,00	PCS	_	_	BLUE	2300
2	Purchase Order	23106046	Freya Dress	Forest Green,46	☑	New Order	☐	☐	0,00	8,00	8,00	PCS	_	_	BLUE	2300
2	Purchase Order	23106048	Freya Dress	Forest Green,48	☑	New Order	☐	☐	0,00	6,00	6,00	PCS	_	_	BLUE	2300
2	Purchase Order	23106050	Freya Dress	Forest Green,50	☑	New Order	☐	☐	0,00	6,00	6,00	PCS	_	_	BLUE	2300
2	Purchase Order	23109948	Freya Dress	Black,48	☑	New Order	☐	☐	0,00	5,00	5,00	PCS	_	_	BLUE	2300
2	Purchase Order	23109950	Freya Dress	Black,50	☑	New Order	☐	☐	0,00	5,00	5,00	PCS	_	_	BLUE	2300
2	Purchase Order	23109952	Freya Dress	Black,52	☑	New Order	☐	☐	0,00	5,00	5,00	PCS	_	_	BLUE	2300
1	Transfer Order	23106036	Freya Dress	Forest Green,36	☑	New Order	☐	☐	0,00	4,00	4,00	PCS	_	_	S_LONDON	2300
1	Transfer Order	23106036	Freya Dress	Forest Green,36	☑	New Order	☐	☐	0,00	3,00	3,00	PCS	_	_	S_MANCHEST	2300
1	Transfer Order	23106038	Freya Dress	Forest Green,38	☑	New Order	☐	☐	0,00	4,00	4,00	PCS	_	_	S_LONDON	2300
1	Transfer Order	23106038	Freya Dress	Forest Green,38	☑	New Order	☐	☐	0,00	3,00	3,00	PCS	_	_	S_MANCHEST	2300
1	Transfer Order	23106040	Freya Dress	Forest Green,40	☑	New Order	☐	☐	0,00	4,00	4,00	PCS	_	_	S_LONDON	2300

You can change the **Replacement Quantity** and other fields before posting (Carry Out Action Message) and after clicking ***Post All Approved*** on ribbon *Actions,* you can see the following results.

Low-Level Code ↑	Type ↑	Item No. ↑	Item Description	Item Description 2	Approve	Action	Calc... Base Cha...	Post...	Existing Quantity	Replacement Quantity	Difference	Unit of Measure Code	Replacement Order No.	Replacement Prod. Collect. Order No.	Assign Location Code	Replacem Buy-from Vendor N
2	Purchase Order	23106048	Freya Dress	Forest Green,48	☑	New Order	☐	☑	0,00	6,00	6,00	PCS	0200001	_	BLUE	2300
2	Purchase Order	23106050	Freya Dress	Forest Green,50	☑	New Order	☐	☑	0,00	6,00	6,00	PCS	0200001	_	BLUE	2300
2	Purchase Order	23109948	Freya Dress	Black,48	☑	New Order	☐	☑	0,00	5,00	5,00	PCS	0200001	_	BLUE	2300
2	Purchase Order	23109950	Freya Dress	Black,50	☑	New Order	☐	☑	0,00	5,00	5,00	PCS	0200001	_	BLUE	2300
2	Purchase Order	23109952	Freya Dress	Black,52	☑	New Order	☐	☑	0,00	5,00	5,00	PCS	0200001	_	BLUE	2300
1	Transfer Order	23106036	Freya Dress	Forest Green,36	☑	New Order	☐	☑	0,00	4,00	4,00	PCS	1012	_	S_LONDON	2300
1	Transfer Order	23106036	Freya Dress	Forest Green,36	☑	New Order	☐	☑	0,00	3,00	3,00	PCS	1013	_	S_MANCHEST	2300
1	Transfer Order	23106038	Freya Dress	Forest Green,38	☑	New Order	☐	☑	0,00	4,00	4,00	PCS	1012	_	S_LONDON	2300
1	Transfer Order	23106038	Freya Dress	Forest Green,38	☑	New Order	☐	☑	0,00	3,00	3,00	PCS	1013	_	S_MANCHEST	2300
1	Transfer Order	23106040	Freya Dress	Forest Green,40	☑	New Order	☐	☑	0,00	4,00	4,00	PCS	1012	_	S_LONDON	2300
1	Transfer Order	23106040	Freya Dress	Forest Green,40	☑	New Order	☐	☑	0,00	3,00	3,00	PCS	1013	_	S_MANCHEST	2300
1	Transfer Order	23106042	Freya Dress	Forest Green,42	☑	New Order	☐	☑	0,00	4,00	4,00	PCS	1012	_	S_LONDON	2300
1	Transfer Order	23106042	Freya Dress	Forest Green,42	☑	New Order	☐	☑	0,00	3,00	3,00	PCS	1013	_	S_MANCHEST	2300

b. One new **Purchase Order.** The **Location Code** came from the **Location Code** of the SKUs.

Purchase Orders: All ∨ | Search | + New | Delete | Print/Send ∨ | Order ∨ | Release ∨ | Posting ∨ | Navigate ∨ | Open in Excel

No. ↑	Buy-from Vendor No.	Buy-from Vendor Name	Vendor Authorization No.	Order Type	Collection No.	Location Code	Assigned User ID	Docum Date
0200001	2300	Oriental Production Services				BLUE		6-9-2
104001	30000	CoolWood Technologies						20-1-

c. In this scenario, no **Production Orders** or **PCOs** have been created

d. Three new **Transfer Orders** have been created: 1 for every **Transfer-To Code**

TRANSFER ORDERS | WORK DATE: 6-9-2020

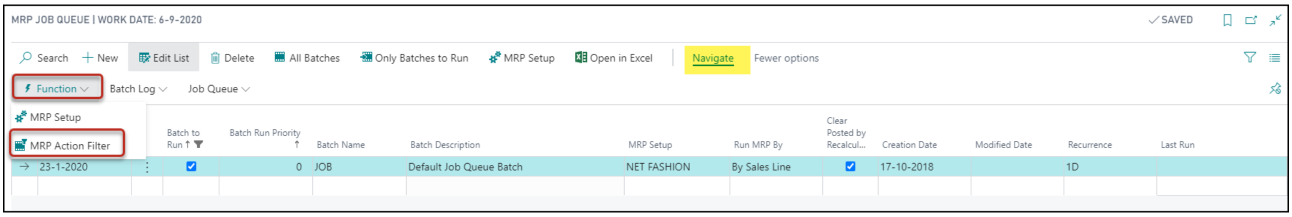
Search | + New | Manage | Report | Release | Posting | Order | Print/Send | Navigate | Open in Excel | More options

No. ↑	Transfer-from Code	Transfer-to Code	In-Transit Code	Status	Direct Transfer	Assigned User ID
1009	GREEN	RED	OWN LOG.	Released	☐	
1010	RED	BLUE	OUT. LOG.	Released	☐	
1011	BLUE	INDIA	OUT. LOG.	Open	☐	
1012	BLUE	S_LONDON	OWN LOG.	Open	☐	
1013	BLUE	S_MANCHEST	OWN LOG.	Open	☐	
1014	BLUE	S_BRISTOL	OWN LOG.	Open	☐	

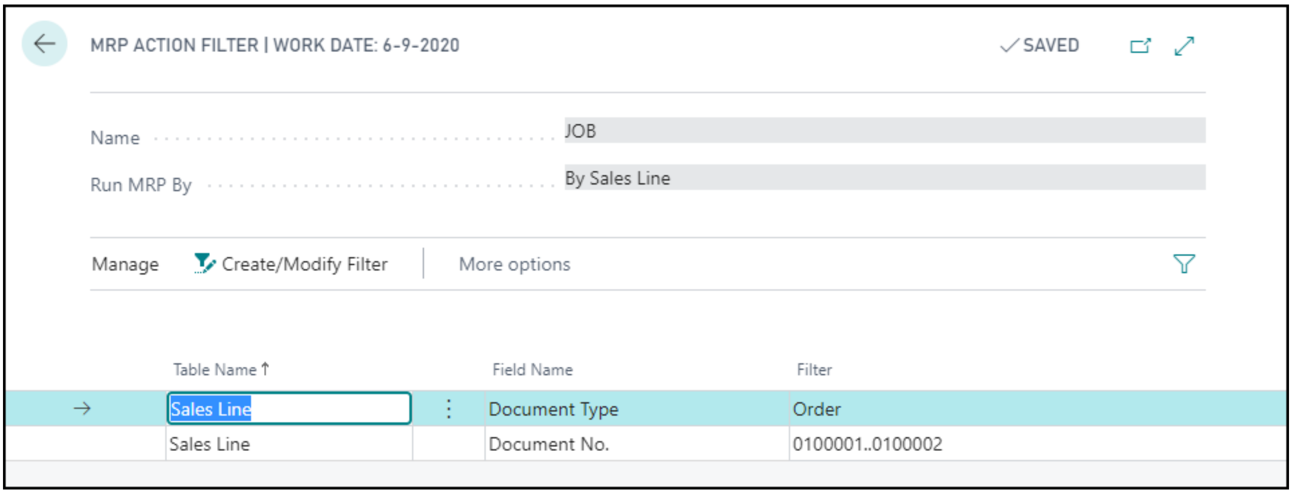
SCENARIO 7 – MRP JOB QUEUE

You want the MRP Calculation to run every day automatically.

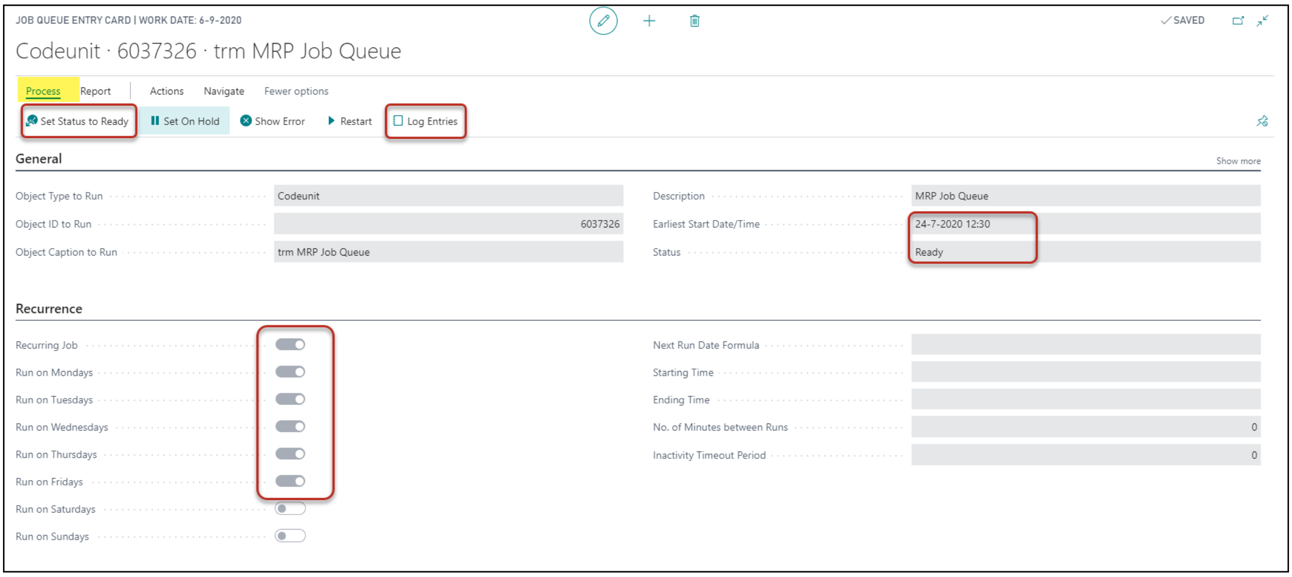
Therefore, you created a special **MRP Job Queue** and a **Job Queue Entry**:



And entered the **MRP Action Filter:**



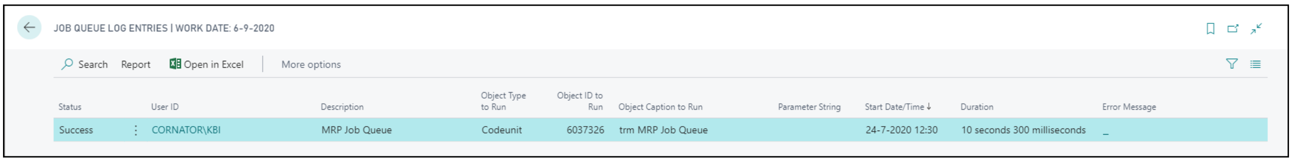
The **Next Run** date should be set to the current day to see any result for this Scenario.



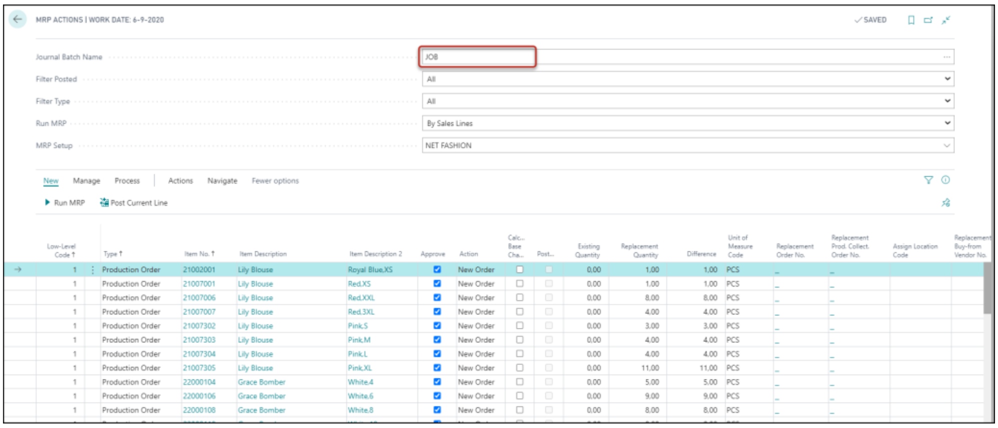
The **Earliest Start Date/Time** should be set to current day and a time close in the past.
Do not forget to click *Process, **Set Status to Ready***.

Before you know it, the MRP Calculation has been run already automatically, and in the **MRP Actions** with **Journal Batch Name** *JOB*, you will see all the suggestions, without any manual interference.

Via *Process,* **Log Entries** you can see:

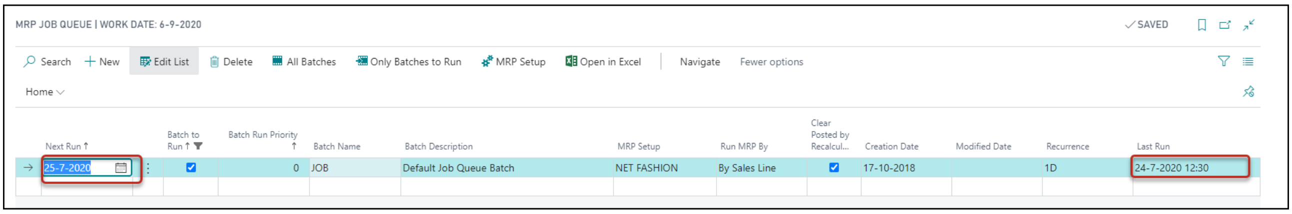


And in the **MRP Actions** you can see:



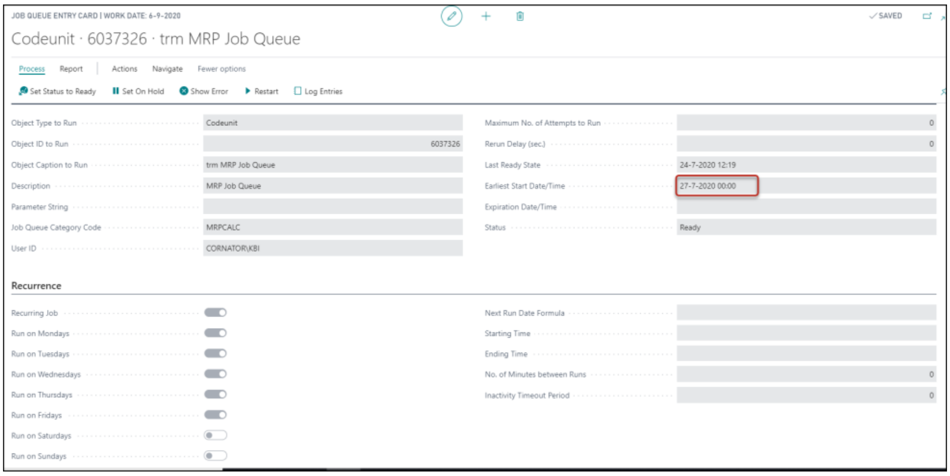
You need to make sure that the **Journal Batch Name** is set to *JOB*, because that was set in **Batch Name** of the **MRP Job Queue.**

Now also the **MRP Job Queue** has been changed:



The **Next Run** date is filled with the next date based on the **Last Run** and the **Recurrence**.

And the **Job Queue Entry** has changed as well:



NOTE

In this example: July 24th is a Friday, so although the MRP Job Queue says **Next Run** *25-07-20*, it will run actually on **Earliest Start Date/Time** *27-07-20* of the Job Queue Entry.