



Manufacturing Masterdata Management

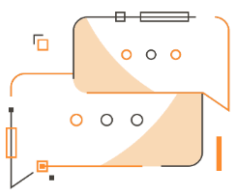
Advanced features for production management in
Microsoft Dynamics 365 Business Central



Manufacturing Masterdata Management

App for Microsoft Dynamics 365 Business Central

Manufacturing Masterdata Management improves **advanced features** for the **production management** in Microsoft Dynamics 365 Business Central.



Do you want to monitor equipment and personnel within routings and calculate their costs? Do you want to view and replace/delete components within BOMs?

How it works

Thanks to the Manufacturing Masterdata Management app you can:

- Manage personnel and equipment
- Massively calculate and modify components/items of production BOMs or production orders

Quick Guide

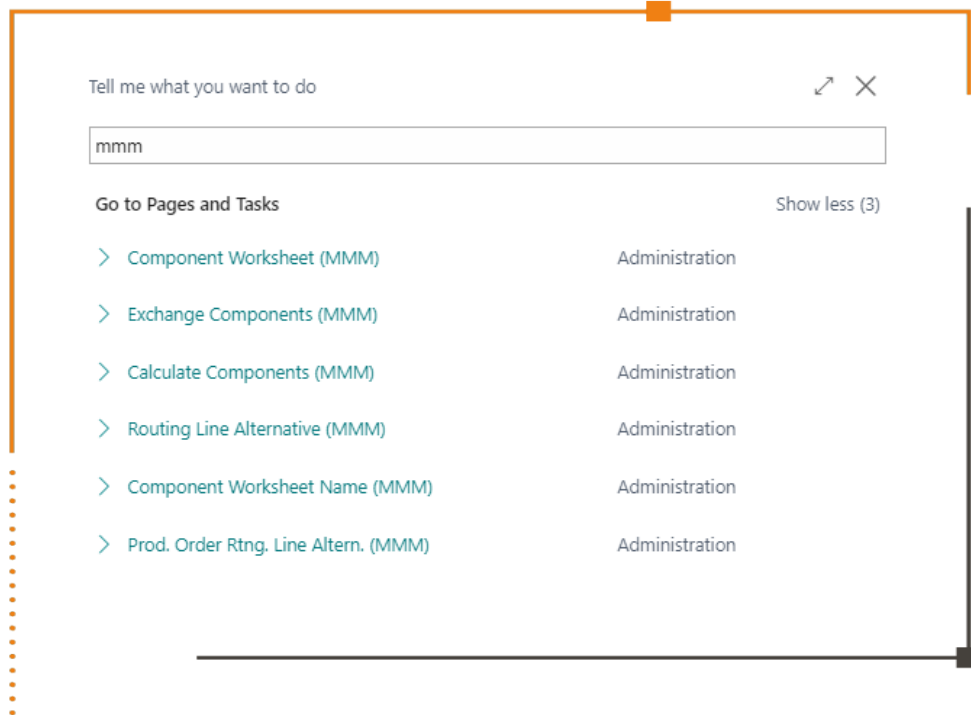
Ready in a few steps:

1. **Manage** personnel and equipment
2. **Massively change** BOM or production order components



Manufacturing Masterdata Management - SUMMARY

Press ALT + Q and digit "MMM" for a list of the features involved:



Go to Pages and Tasks

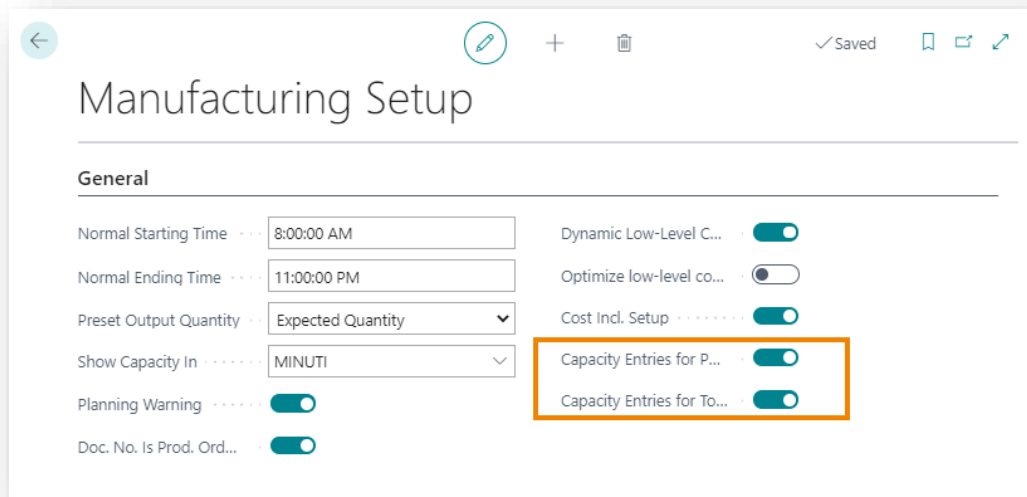
Show less (3)

- > Component Worksheet (MMM) Administration
- > Exchange Components (MMM) Administration
- > Calculate Components (MMM) Administration
- > Routing Line Alternative (MMM) Administration
- > Component Worksheet Name (MMM) Administration
- > Prod. Order Rtng. Line Altern. (MMM) Administration

Tools and personnel

You can use these areas for informational purposes only, or you can consider them in capacity movements, in terms of setup and run times, to which **you can associate costs**.

Simply activate the corresponding option on the Manufacturing Setup page:



Manufacturing Setup

General

Normal Starting Time: 8:00:00 AM

Normal Ending Time: 11:00:00 PM

Preset Output Quantity: Expected Quantity

Show Capacity In: MINUTI

Planning Warning:

Doc. No. Is Prod. Ord...:

Dynamic Low-Level C...:

Optimize low-level co...:

Cost Incl. Setup:

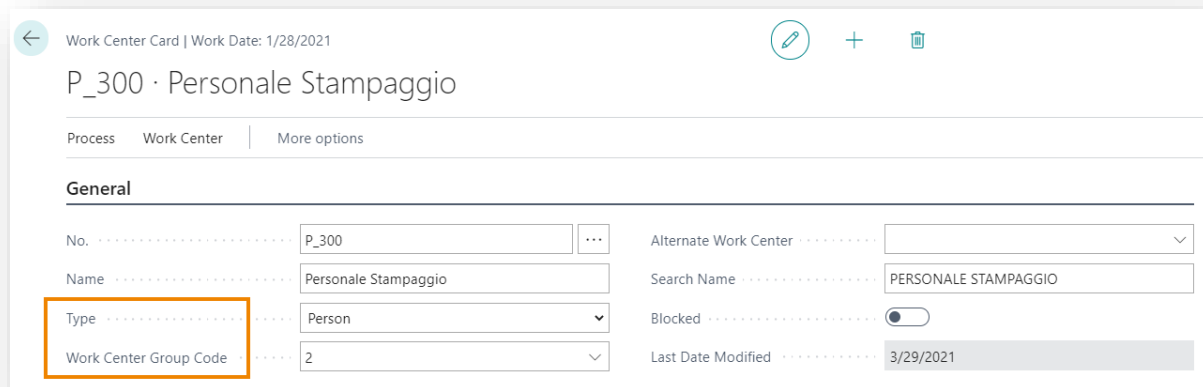
Capacity Entries for P...:

Capacity Entries for To...:

Personnel / equipment - masterdata

A work area can be of type "Tool" or "Person" and have a specific Work Center Group Code.

The other fields are filled in in the same way as classic work centers.



Work Center Card | Work Date: 1/28/2021

P_300 · Personale Stampaggio

Process | Work Center | More options

General

No.: P_300

Name: Personale Stampaggio

Type: Person

Work Center Group Code: 2

Alternate Work Center: [dropdown]

Search Name: PERSONALE STAMPAGGIO

Blocked:

Last Date Modified: 3/29/2021

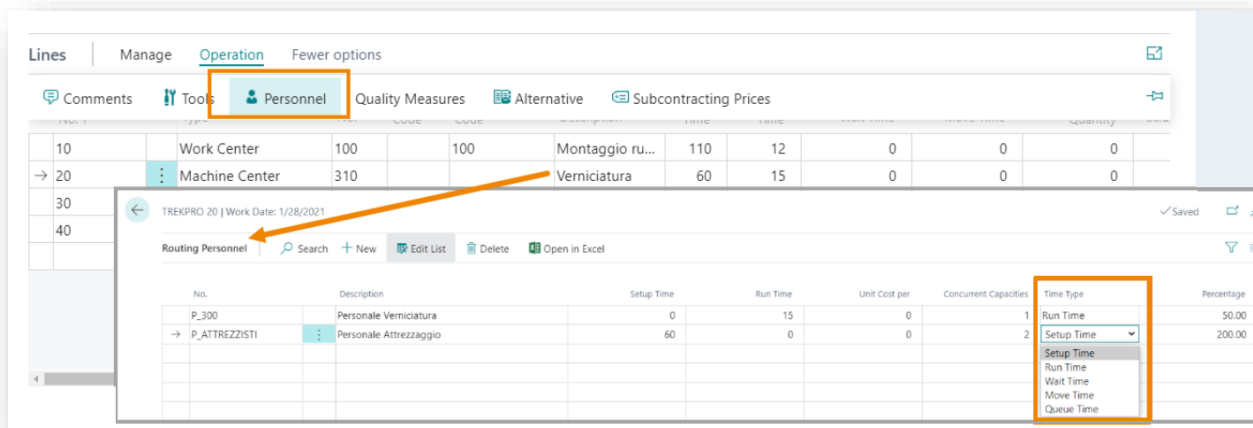
Field	Description
Type	<ul style="list-style-type: none"> Person: allows you to define the employment and hours of work of the personnel working on a machine (e.g. personnel dealing with painting) Tool: allows you to define the machinery used for processing (e.g. a frame for painting) Machine: not used



It is possible to insert **one or more "Personnel" work centers within a routing.**

It is possible to indicate a specific Unit Cost for the processing cycle different from the cost attributed in the personnel masterdata.

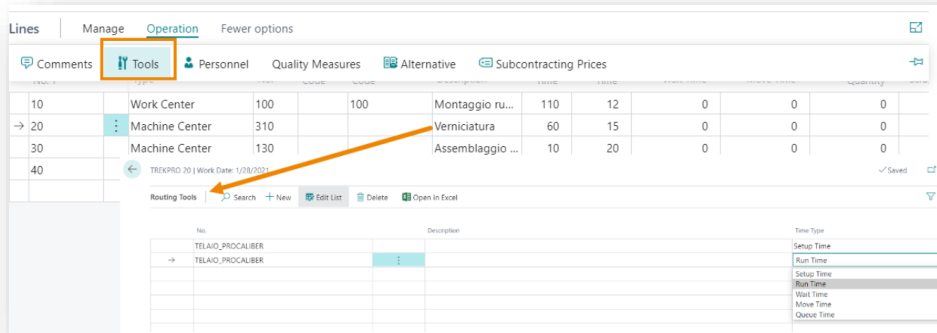
E.g., for the TREKPRO routing we select the "Verniciatura (Painting)" work center and from **Operation-> Personnel** we can get the details on the people who work for this center:



Setup Time, Run Time and Concurrent Capacities are used by the system for cost calculation.

Field	Description
Time Type	the Personal area is associated with a capacity expressed in terms of time, based on the corresponding Type of Time: Setup Time, Run Time, Wait Time, Move Time, Queue Time.
Percentage	indicates the percentage of employment of the personnel (one person is employed for the painting, for 50% of their working time. The setup is followed by two people, each of whom takes all their working time.)

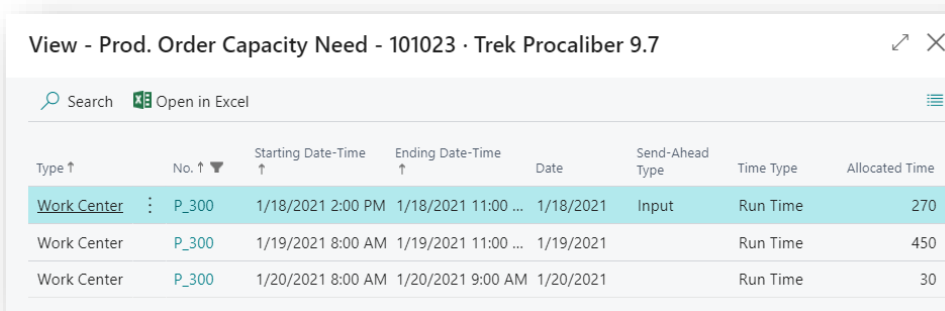
From **Operation**-> **Tools** we can have the detail on the frame that is needed for the painting:



Line	Work Center	Quantity	Operation	Time	Time	Time	Time	Time	Time
10	Work Center	100	Montaggio ru...	110	12	0	0	0	0
20	Machine Center	310	Verniciatura	60	15	0	0	0	0
30	Machine Center	130	Assemblaggio ...	10	20	0	0	0	0
40									

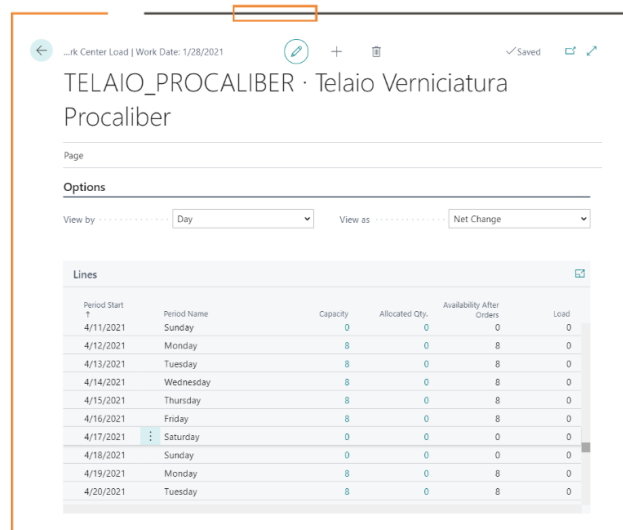
No.	Description	Time Type
TELAIO_PROCALIBER		Setup Time
TELAIO_PROCALIBER		Run Time
		Setup Time
		Run Time
		Wait Time
		Move Time
		Queue Time

From Related- > Allocated Capacity we can see the **capacity need (personnel / tools)**:



Type ↑	No. ↑ ↓	Starting Date-Time ↑	Ending Date-Time ↑	Date	Send-Ahead Type	Time Type	Allocated Time
Work Center	P_300	1/18/2021 2:00 PM	1/18/2021 11:00 ...	1/18/2021	Input	Run Time	270
Work Center	P_300	1/19/2021 8:00 AM	1/19/2021 11:00 ...	1/19/2021		Run Time	450
Work Center	P_300	1/20/2021 8:00 AM	1/20/2021 9:00 AM	1/20/2021		Run Time	30

It is possible to see the loads by day, week, month, quarter, year, period. In the same way you can view the workload for the equipment:



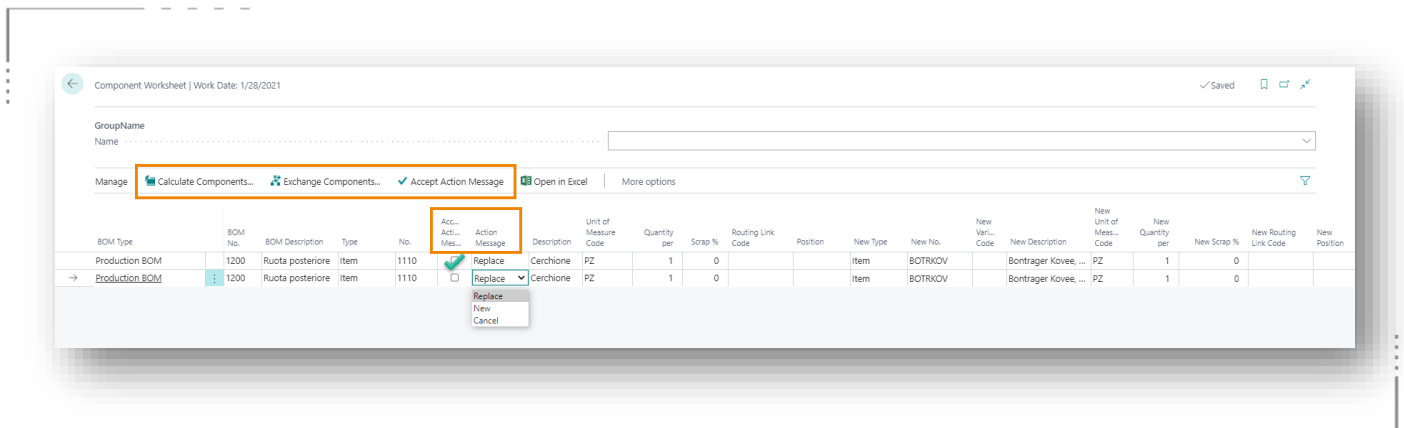
Period Start ↑	Period Name	Capacity	Allocated Qty.	Availability After Orders	Load
4/11/2021	Sunday	0	0	0	0
4/12/2021	Monday	8	0	8	0
4/13/2021	Tuesday	8	0	8	0
4/14/2021	Wednesday	8	0	8	0
4/15/2021	Thursday	8	0	8	0
4/16/2021	Friday	8	0	8	0
4/17/2021	Saturday	0	0	0	0
4/18/2021	Sunday	0	0	0	0
4/19/2021	Monday	8	0	8	0
4/20/2021	Tuesday	8	0	8	0



Massively change BOM or production order components

It is possible to exchange components **in production orders and BOMs**. It is a worksheet that allows the calculation of the components to be exchanged.

Using Alt + Q and typing "MMM" you open the Component Worksheet (MMM) page:



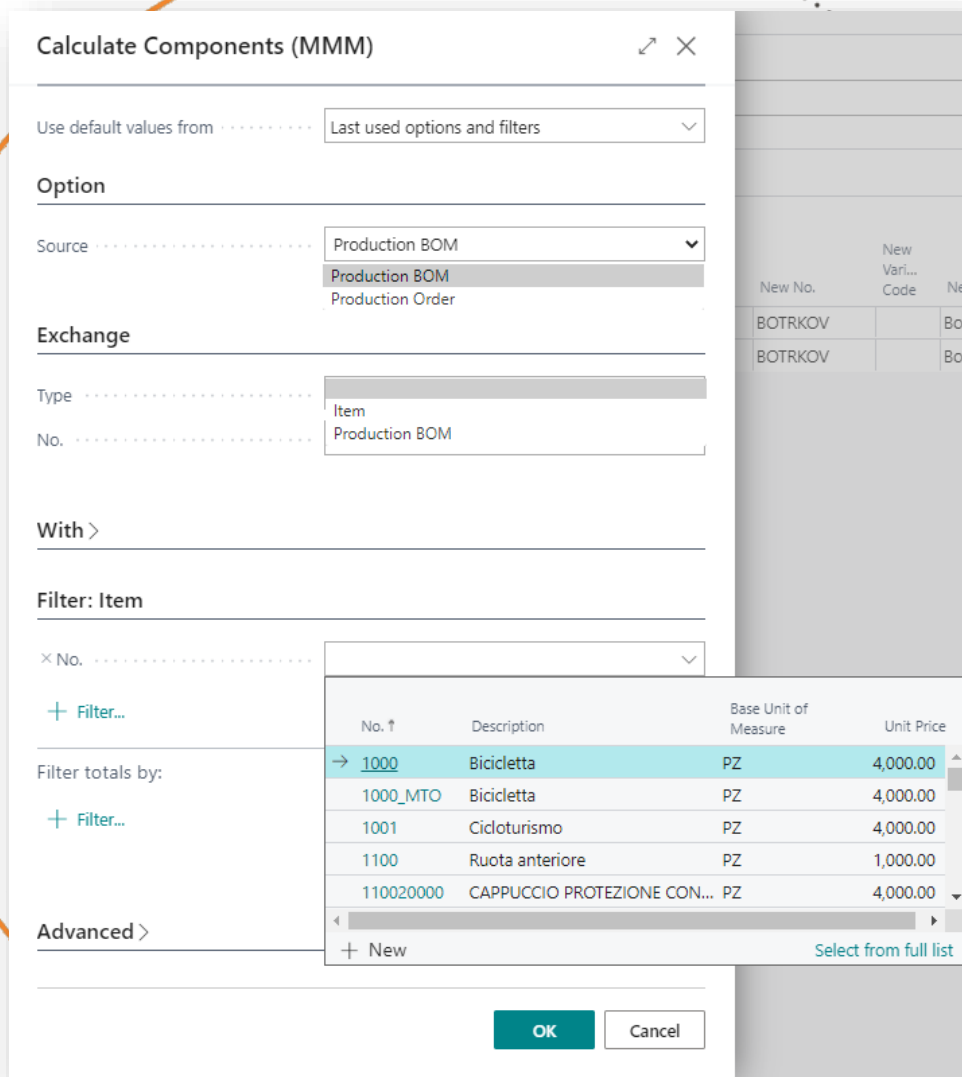
The action message allows us to choose what to do:

Field	Description
Replace	the system replaces the component within the bill of materials or the production order
New	the system creates a new component in the bill of materials or in the production order
Cancel	the system deletes the component from the bill of materials or from the production order



Calculate Components

In order to fill in the worksheet press Calculate Components:



Calculate Components (MMM)

Use default values from: Last used options and filters

Option

Source: Production BOM

Exchange

Type: Item

No.: Production BOM

Filter: Item

× No.: 1000

No. ↑	Description	Base Unit of Measure	Unit Price
→ 1000	Bicicletta	PZ	4,000.00
1000_MTO	Bicicletta	PZ	4,000.00
1001	Cicloturismo	PZ	4,000.00
1100	Ruota anteriore	PZ	1,000.00
110020000	CAPPUCCIO PROTEZIONE CON...	PZ	4,000.00

+ New Select from full list

OK **Cancel**

Components can be calculated **based on their origin** : Production BOM or Production Orders. With this functionality it is in fact possible to change components directly on the existing production orders.

The exchange can be of an item or of a Bill of Materials. You can specify the Item No. in this field, or filter by item in the "Filter: Item" section.

You can indicate in the **tab "With"** the item to be replaced with:

With

Type

No. BOTRKOV ...

Check Substitutes

Create New Version

Multiply Qty. with

Version Date Filter

Starting Date

Routing Link Code

It is also possible:

- Check for replacement items
- Create a new version (as in the standard functionality)
- Multiply the quantity of components by a certain factor
- Filter only for certain versions
- Filter only for certain link codes between routing and BOM

After performing the calculation, the system proposes the lines identified in the BOM containing the item to be replaced (they cannot be changed manually) and the new item that we want to insert in its place (the fields relating to the new item can be changed manually)

Component Worksheet | Work Date: 1/28/2021

Group Name:

Manage: [Calculate Components...](#) [Exchange Components...](#) [Accept Action Message](#) [Open in Excel](#) More options

BOM Type	No.	Acc. Mes.	Action Message	Description	Unit of Measure Code	Quantity per	Scrap %	Routing Link Code	Position	New Type	New No.	New Ver. Code	New Description	New Unit of Measure Code	New Quantity per	New Scrap %	New Routing Link Code	New Position	Cre. Vers.	Starting Date	Processed
Production BOM	1110		Replace	Cerchione	PZ	1	0			Item	BOTRKOV		Bontrager Kovee ...	PZ	2	10	200		<input checked="" type="checkbox"/>	1/28/2021	

Pressing **Exchange components** (after accepting the action message) you can confirm the lines of the report.

Subscription

Some features of the Manufacturing Masterdata Management app require a subscription.

The subscription can be activated from Subscription control panel or directly from the notification messages that the system proposes, by clicking on the link that allows you to start the subscription wizard.

Contact us for more info:

www.eos-solutions.it/en/contact-support.html



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