Extended Manufacturing Registration

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Introduction

Extended Manufacturing Registration contains two functionalities
- Item Charge assignment to production (Output)
- Registration on finished production orders

Requirements

This product can be installed as an extension in Microsoft Dynamics 365 Business Central BC14

It is recommended to use the newest Cumulative Update.
It is possible to see the Runtime version in Help – About Microsoft Dynamics.

Item Charge Assignment on production (Output)

It is possible to assign Item Charge to an Output entry. Item Charge assignment is often used to apply cost from freight or similar cost, which companies often receive late, to a sales order. This is also referred to as landed cost. Unfortunately, standard Navision do not have functionality for production. With this module we have added this possibility to assign cost that is maybe not directly linked to the production (e.g. freight).

In Navision, cost price of a manufactured product consists of contributions from registrations of consumed items and time consumed by operators and machines.

In the real world, however, costs can often arise that are not part of neither route nor component list, but which one wishes to include in the actual cost of the finished product. Special situations can appear during production that makes it necessary to spend extra cost that are not part of the BOM but we would like to apply this cost to the production. This could be for urgent transport of materials, counseling etc.

In standard Dynamics NAV, this can be handled to a certain extent on an ongoing order by adding materials to the component list and operations in the route.

Often this is not practical in practice, and on the finished production order you are completely cut off from adding changes to the production order.

Costs are entered via purchase invoice or purchase order using Charge (Item) fee. In the Item Charge Assignment cost is applied to the unit or units of finished goods from production orders that you wish to charge.
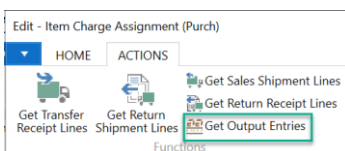
Example.
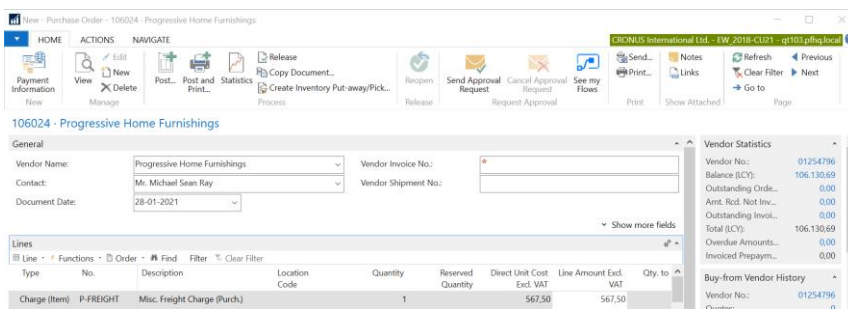
Chose Line – Item Charge Assignment
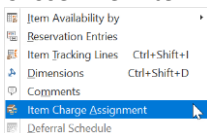
In the Item Charge Assignment chose Get Output Entries

You can use the Suggest Item Charge Assignment to spread the cost on assignment lines you have created. If you only have one line then all cost will be allocated to this this line no matter what calculation method you use in the Suggest Item Charge Assignment.

Edit - Item Charge Assignment (Purch) - P-FREIGHT Misc. Freight Charge (Purch.)

Applies-to Doc. Type	Applies-to Doc. No.	Applies-to Doc. Line...	Item No.	Description	Qty. to Assign	Qty. Assigned	Amount to Assign	Gross Weight	Unit Volume
Production O...		325	1000			1	567,50		

View - Value Entries - Item Ledger Entry 325

Value Entries ·

Filter: 325

| Posting Date	Item Ledger Entry Type	Entry Type	Adju...	Document Type	Document No.	Item Charge No.	Description	Sales Amount (Actual)	Cost Amount (Expected)	Cost Amount (Actual)	Cost Amount (Non-Invtbl.)	Cost Posted
10-09-2021	Output	Direct Cost	☐		1011001			0,00	1.752,97	0,00	0,00	0
10-09-2021	Output	Direct Cost	☐		1011001			0,00	-1.752,97	4.547,45	0,00	0
10-09-2021	Output	Direct Cost	☐		1011001			0,00	0,00	-9,80	0,00	0
28-01-2021	Purchase	Direct Cost	☐	Purchase Inv...	108036	P-FREIGHT	Misc. Freight Charge (Purch.)	0,00	0,00	368,21	0,00	0
10-09-2021	Output	Variance	☐		1011001			0,00	0,00	-2.422,48	0,00	0
10-09-2021	Output	Variance	☐		1011001			0,00	0,00	-372,00	0,00	0
10-09-2021	Output	Variance	☐		1011001			0,00	0,00	9,80	0,00	0
28-01-2021	Purchase	Variance	☐	Purchase Inv...	108036			0,00	0,00	-368,21	0,00	0

Through the setup of different Item Charge fees and associated accounting setup it is possible to control how these costs are posted in the chart of account.

Besides seeing the value entry on the output entry, we can see all entries for a specific Item Charge directly on the Item Charge

Edit - Item Charges

Item Charges ·

No.	Description	Gen. Prod. Posting ...	Tax Group Code	VAT Prod. Posting ...	Search Description
JB-FREIGHT	Freight Charge (JB-Spedition)	SERVICES		VAT25	FREIGHT CHA...
P-ALLOWANCE	Purchase Allowance	SERVICES		VAT25	PURCHASE A...
P-FREIGHT	Misc. Freight Charge (Purch.)	SERVICES		VAT25	MISC. FREIGH...
P-RESTOCK	Purchase Restock Charge	SERVICES		VAT25	PURCHASE R...
S-ALLOWANCE	Sales Allowance	SERVICES		VAT25	SALES ALLO...
S-FREIGHT	Misc. Freight Charges (Sales)	SERVICES		VAT25	MISC. FREIGH...
S-RESTOCK	Sales Restock Charge	SERVICES		VAT25	SALES RESTO...

View - Value Entries

Value Entries ·

Filter: Direct Cost · P-FREIGHT

Cost per Unit (ACY)	Item No.	Gen. Bus. Posting ...	Gen. Prod. Posting ...	Source Type	Source No.	External Docume...	Order Type	Valu... By A...	Item Ledger Entry No.	Capacity Ledger Ent...	Entry No.
0,00	1000	EXPORT	SERVICES	Vendor	01254796	454354365	Production	☐	325	0	459

Registration on finished production orders

This functionality is used to correct posting on production. This could be missing consumption, wrong batch number, wrong consumption etc
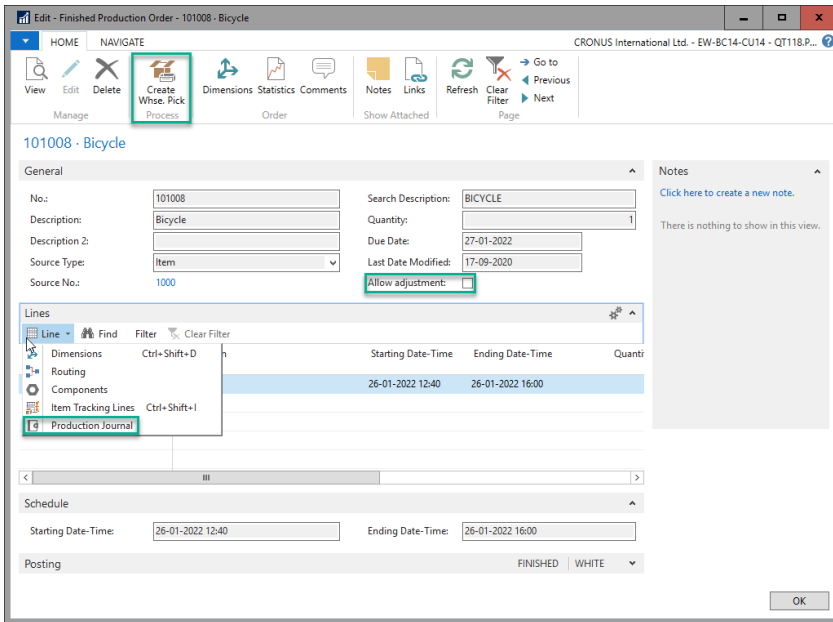
Allow adjustment

This field opens up for changes on production order. You will be allowed to modify and add component lines. It is also required for access to Production Journal (Posting).

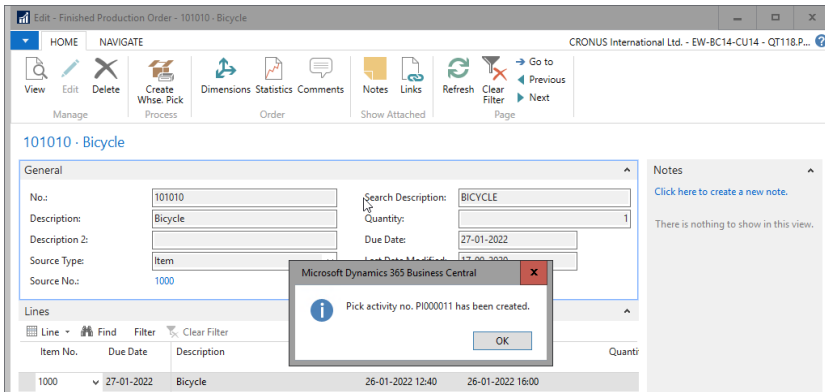We recommend to setup Changelog for production order

Create Whse. Pick

On the finished production order it is possible to create pick on the same conditions as on the released production orders. If there are remaining quantity for some of the components and Location for these lines are setup for pick. Order 101010 was finished before everything was picked

We can create pick for the missing pick

We could also have a situation where we had picked and consumed the wrong batch. Then we could reverse the wrong consumed batch and the pick and consume the right batch.

Pick Lines

After creating the pick you can chose Pick Lines to show this pick.
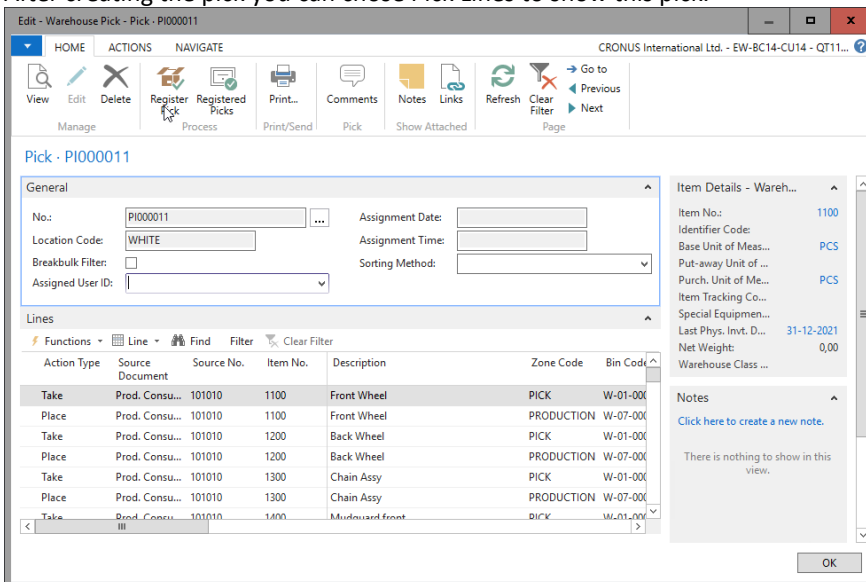
You can also find this pick using warehouse menu

Production Journal

On the finished production order, we have added Production Journal where it is possible to post changes to your production order. If you use warehouse management you are required to pick items before you can consume these. You can reverse consumption and output, you can post consumption and output and you can post capacity. It works as on the released production order.
It is not possible to reverse all output (if we do so then WIP account cannot be emptied)
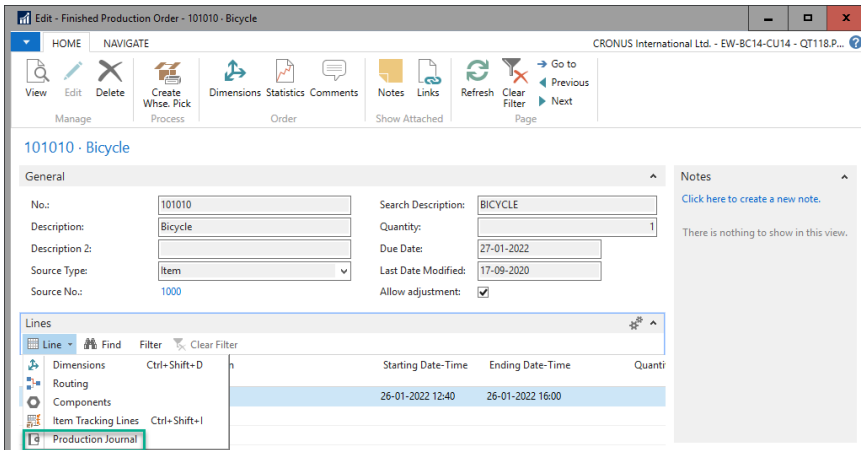
If pick is required and we haven't registered the pick Consumption Quantity in this journal will be zero (just as if you would post Production Journal on a released production order)
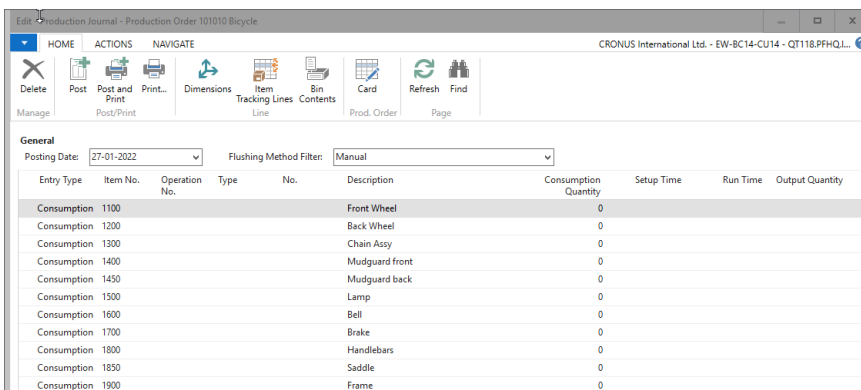
After registering the pick, the production journal shows what can posted (marked ggreen)
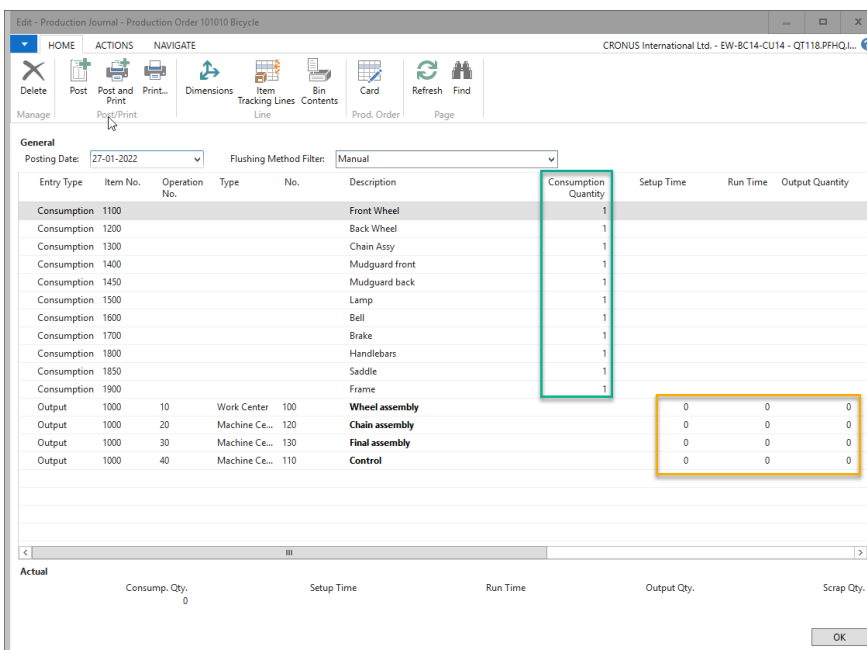
If we need to post capacity or output we can also do this (marked yellow)

After posting the journal we can see the entries on the production order