17. Drag & Relate

Produmex Manufacturing is a legacy product and Boyum IT Solutions no longer sells new installations for it.

Produmex Manufacturing extended the standard SAP Business One drag&relate feature with the following reports specialized for manufacturing:

1. BoM Tree
2. BoM Tree without Operations
3. BoM Usage
4. Production Material Requirements
5. Material Account Grid
6. Material Account Diagram
7. Operations Sequence Diagram
8. Job Requirements Report
9. Allocation Status

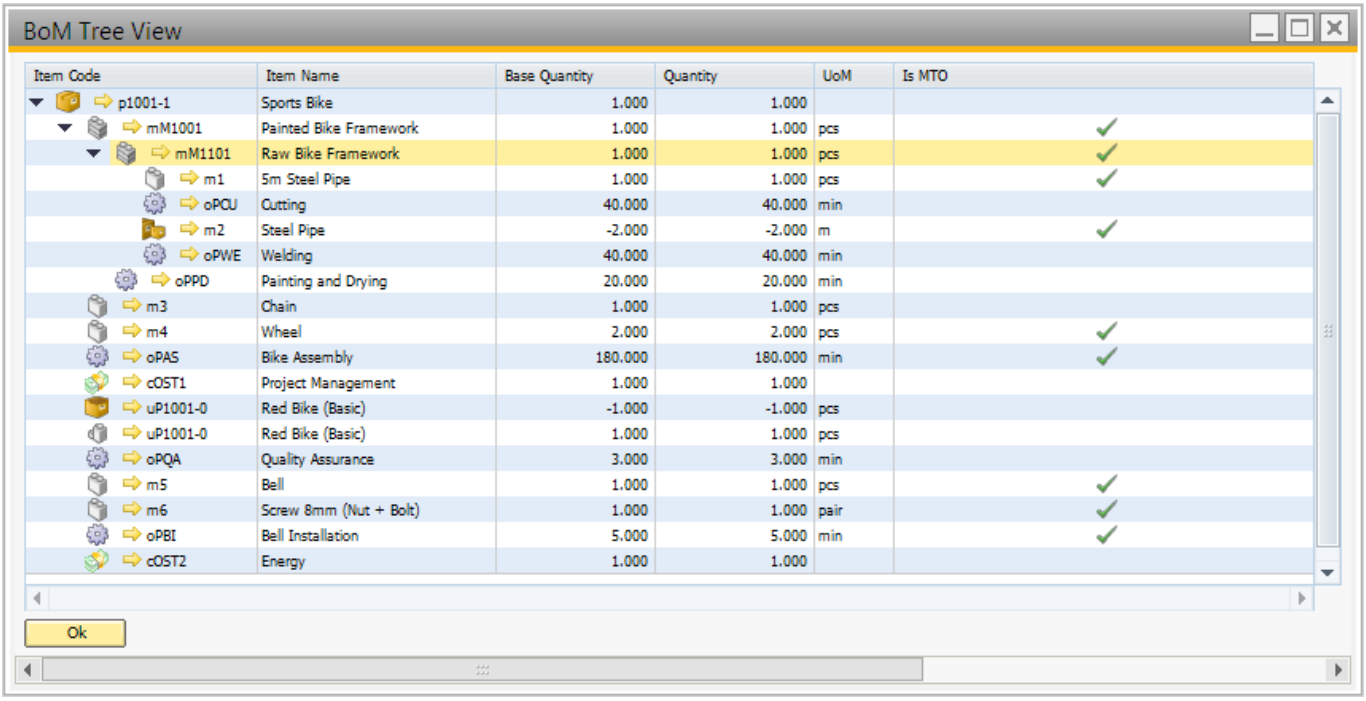
17.1. BoM Tree

To see the complete BoM of a product, grab the item code, place it on the ‘BoM Tree’ line, and then click on ’BoM Tree’. If the grabbed item has a BoM, the BoM Tree View report will open.

The report lists every BoM element of the dropped item. If the Bill of Materials contains an assembly material or a phantom item, the BoM of the assembly material/phantom item will be shown as well. Assembly lines can be collapsed and expanded.

The following information is displayed:

- *Item Code*: This field contains an icon that indicates the role of the item in the BoM and the item code.
- *Item Name*: The description of the item.
- *Base Quantity*
- *Quantity*
- *UoM*
- *Is MTO*: Indicates whether the item will be considered for MTO planning or not.

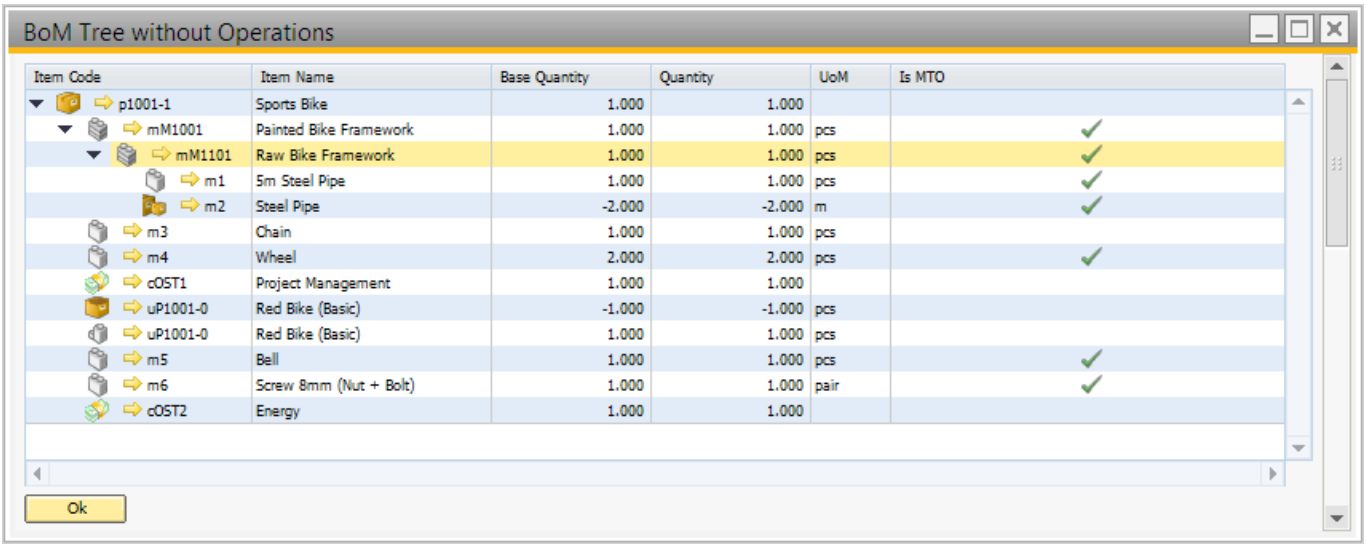


Item Code	Item Name	Base Quantity	Quantity	UoM	Is MTO
p1001-1	Sports Bike	1.000	1.000		
mM1001	Painted Bike Framework	1.000	1.000	pcs	✓
mM1101	Raw Bike Framework	1.000	1.000	pcs	✓
m1	5m Steel Pipe	1.000	1.000	pcs	✓
oPCU	Cutting	40.000	40.000	min	
m2	Steel Pipe	-2.000	-2.000	m	✓
oPWE	Welding	40.000	40.000	min	
oPPD	Painting and Drying	20.000	20.000	min	
m3	Chain	1.000	1.000	pcs	
m4	Wheel	2.000	2.000	pcs	✓
oPAS	Bike Assembly	180.000	180.000	min	✓
cOST1	Project Management	1.000	1.000		
uP1001-0	Red Bike (Basic)	-1.000	-1.000	pcs	
uP1001-0	Red Bike (Basic)	1.000	1.000	pcs	
oPQA	Quality Assurance	3.000	3.000	min	
m5	Bell	1.000	1.000	pcs	✓
m6	Screw 8mm (Nut + Bolt)	1.000	1.000	pair	✓
oPBI	Bell Installation	5.000	5.000	min	✓
cOST2	Energy	1.000	1.000		

17.2. BoM Tree without Operations

To see the complete BoM of a product without operations, grab the item and drop it on the ‘BoM Tree without Operations’ line, then click on the line. If the grabbed item has a BoM, the BoM Tree without Operations report will open.

The report lists every element of the item’s Bill of Materials, except the operations. If the Bill of Materials of the dropped item contains an assembly material or a phantom item, the BoM of the assembly material/phantom item will be shown as well. Assembly lines can be collapsed and expanded.



Item Code	Item Name	Base Quantity	Quantity	UoM	Is MTO
p1001-1	Sports Bike	1.000	1.000		
mM1001	Painted Bike Framework	1.000	1.000	pcs	✓
mM1101	Raw Bike Framework	1.000	1.000	pcs	✓
m1	5m Steel Pipe	1.000	1.000	pcs	✓
m2	Steel Pipe	-2.000	-2.000	m	✓
m3	Chain	1.000	1.000	pcs	
m4	Wheel	2.000	2.000	pcs	✓
cOST1	Project Management	1.000	1.000		
uP1001-0	Red Bike (Basic)	-1.000	-1.000	pcs	
uP1001-0	Red Bike (Basic)	1.000	1.000	pcs	
m5	Bell	1.000	1.000	pcs	✓
m6	Screw 8mm (Nut + Bolt)	1.000	1.000	pair	✓
cOST2	Energy	1.000	1.000		

17.3. BoM Usage

To see the products that require the given item as a component, grab the item, place it on the ‘BoM Usage’ line, and then click on the line.

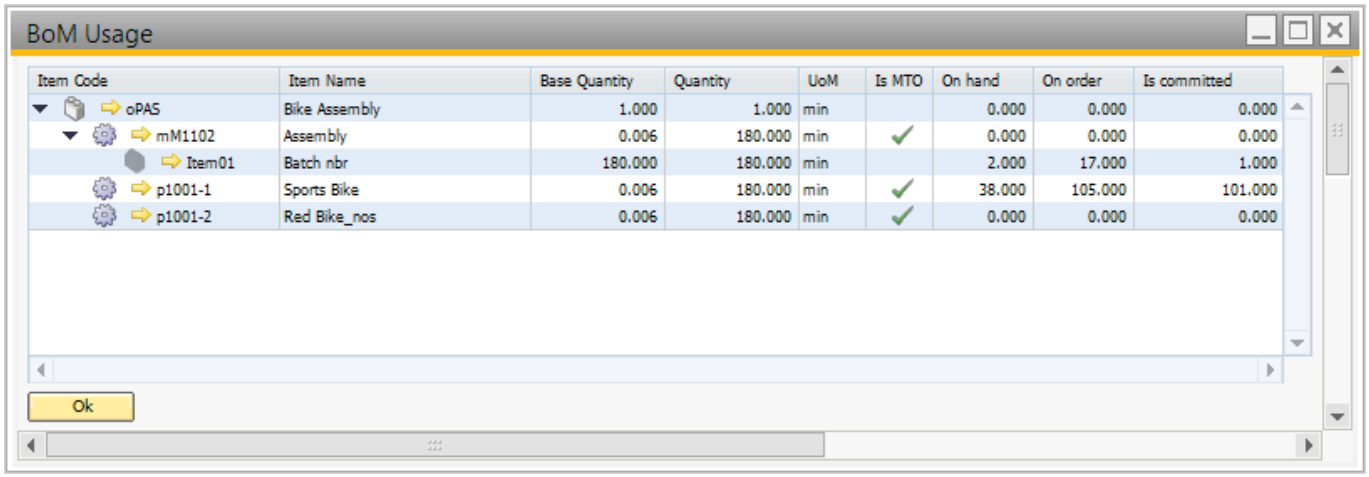
A product is listed on the opening BoM Usage form if its BoM contains the selected item.

If the item is a phantom item, the BoMs that contain the phantom item will be listed under the item.

The report can be used for materials, components, operations, by-products and costs.

The following information is displayed:

- *Item Code*: This field contains an icon that indicates the role of the item in the BoM and the item code.
- *Item Name*: The description of the item.
- *Base Quantity*
- *UoM*
- *Is MTO*: Indicates whether the item will be considered for MTO planning or not.
- *On hand*: The quantity in stock.
- *On order*: The ordered quantity.
- *Is committed*: The committed quantity.



Item Code	Item Name	Base Quantity	Quantity	UoM	Is MTO	On hand	On order	Is committed
oPAS	Bike Assembly	1.000	1.000	min		0.000	0.000	0.000
mM1102	Assembly	0.006	180.000	min	✓	0.000	0.000	0.000
Item01	Batch nbr	180.000	180.000	min		2.000	17.000	1.000
p1001-1	Sports Bike	0.006	180.000	min	✓	38.000	105.000	101.000
p1001-2	Red Bike_nos	0.006	180.000	min	✓	0.000	0.000	0.000

17.4. Production Material Requirements

To see the list of production orders that require the given item as a material, open the Production Material Requirements report. Grab a component/material item, drop it on the ‘Production Material Requirements’ line, and then click on the line.

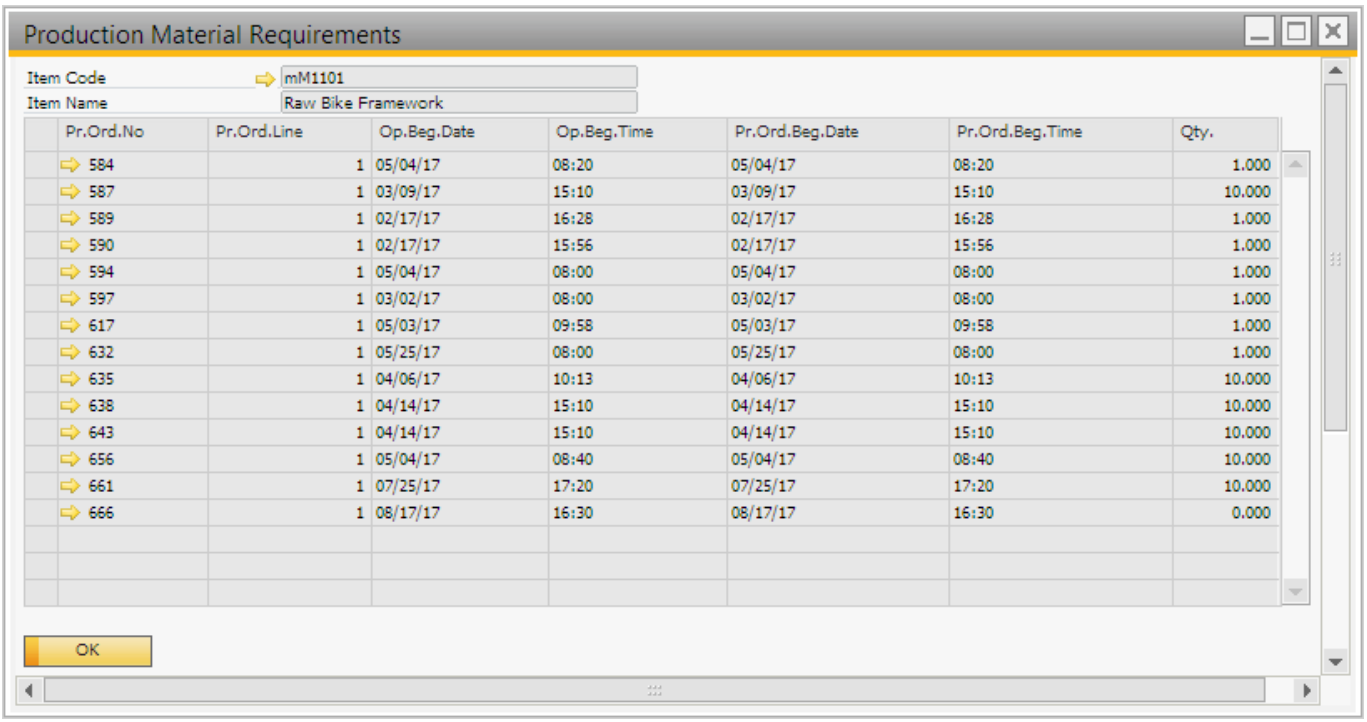
On the grid every open production order that contains the item as a material will be listed and linked.

Please note: If a material is not linked to an operation, it will not be listed.

The following information is displayed:

- *Pr.Ord.Line*: The production order line where the material is located.

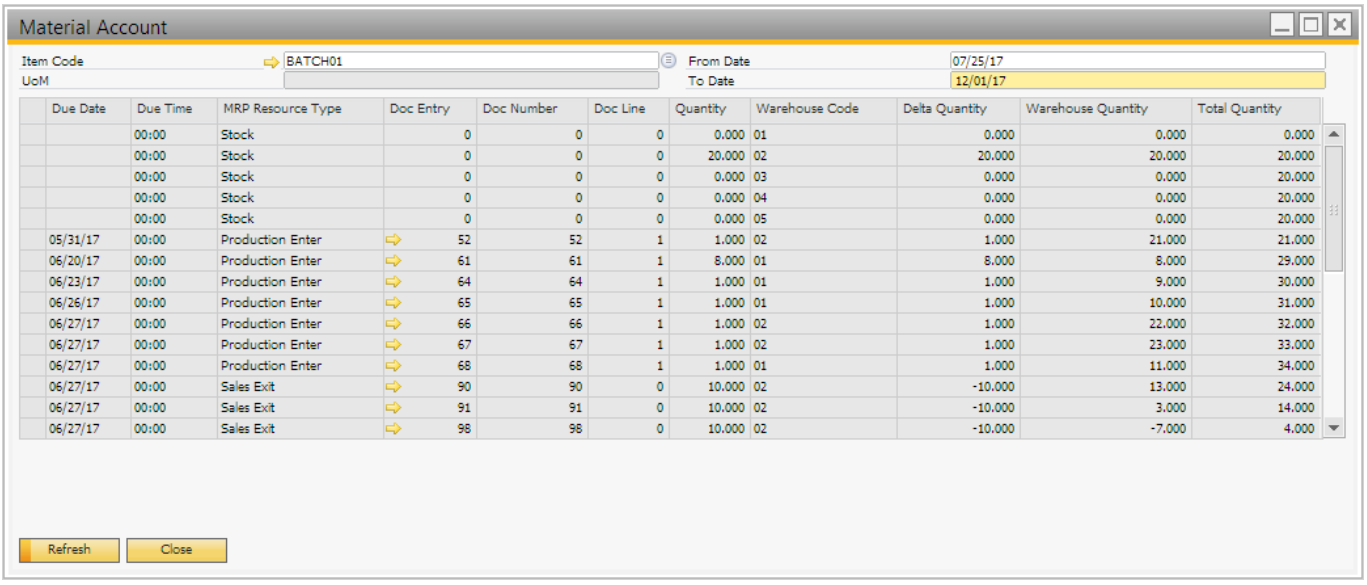
- *Op.Beg.Date*: The begin date of the linked operation.
- *Op.Beg.Time*: The begin time of the linked operation.
- *Pr.Ord.Beg.Date*: The begin date of the production order.
- *Pr.Ord.Beg.Time*: The begin time of the production order.
- *Qty.*: The required quantity.



Pr.Ord.No	Pr.Ord.Line	Op.Beg.Date	Op.Beg.Time	Pr.Ord.Beg.Date	Pr.Ord.Beg.Time	Qty.
584	1	05/04/17	08:20	05/04/17	08:20	1.000
587	1	03/09/17	15:10	03/09/17	15:10	10.000
589	1	02/17/17	16:28	02/17/17	16:28	1.000
590	1	02/17/17	15:56	02/17/17	15:56	1.000
594	1	05/04/17	08:00	05/04/17	08:00	1.000
597	1	03/02/17	08:00	03/02/17	08:00	1.000
617	1	05/03/17	09:58	05/03/17	09:58	1.000
632	1	05/25/17	08:00	05/25/17	08:00	1.000
635	1	04/06/17	10:13	04/06/17	10:13	10.000
638	1	04/14/17	15:10	04/14/17	15:10	10.000
643	1	04/14/17	15:10	04/14/17	15:10	10.000
656	1	05/04/17	08:40	05/04/17	08:40	10.000
661	1	07/25/17	17:20	07/25/17	17:20	10.000
666	1	08/17/17	16:30	08/17/17	16:30	0.000

17.5. Material Account Grid

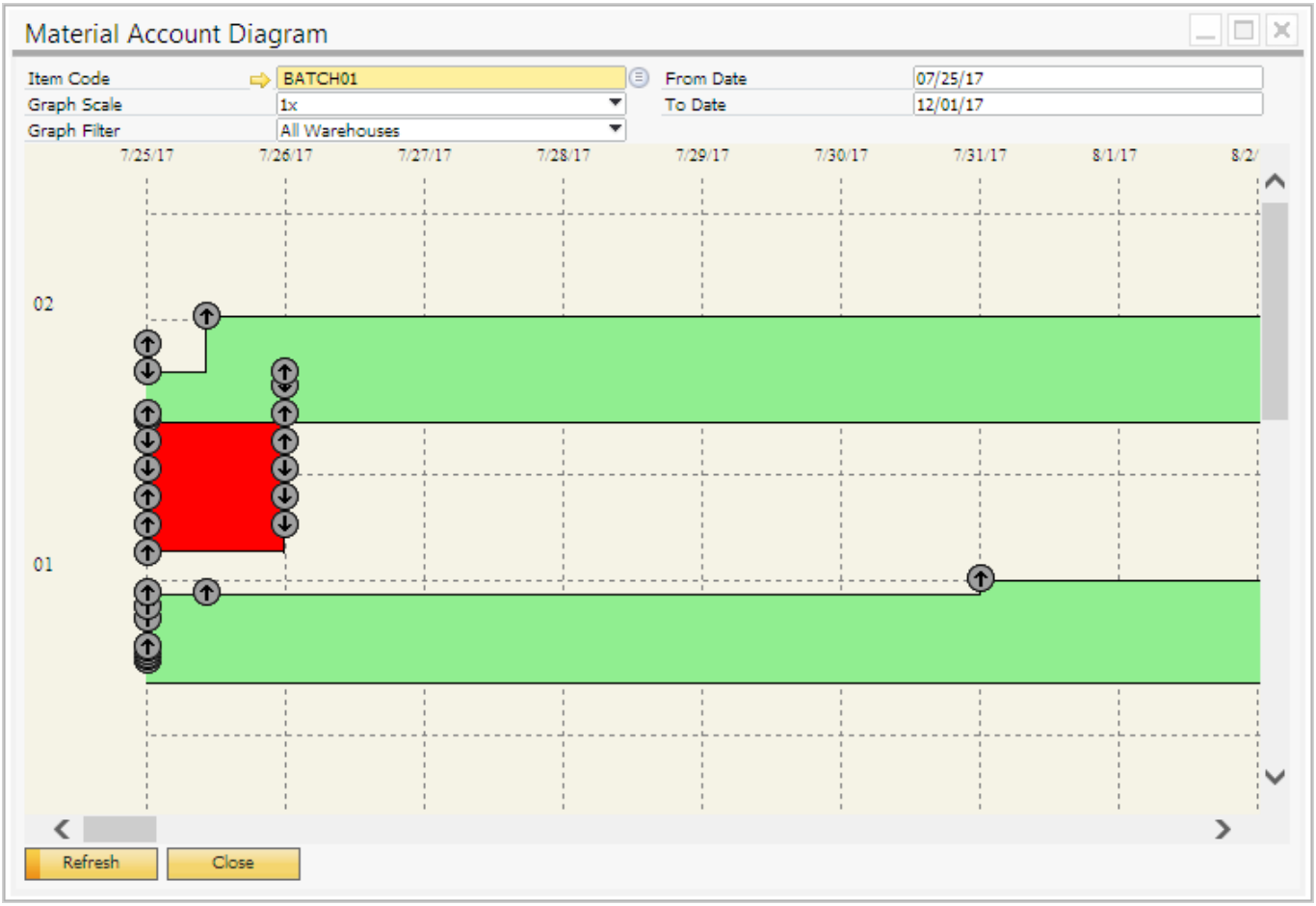
To see the incoming and outgoing inventory transactions of an item, open the Material Account Grid. Drag a non-operation item and drop it on the 'Material Account Grid' line, then click on the line. The 'Material Account Grid' form will open.



Due Date	Due Time	MRP Resource Type	Doc Entry	Doc Number	Doc Line	Quantity	Warehouse Code	Delta Quantity	Warehouse Quantity	Total Quantity
	00:00	Stock	0	0	0	0.000	01	0.000	0.000	0.000
	00:00	Stock	0	0	0	20.000	02	20.000	20.000	20.000
	00:00	Stock	0	0	0	0.000	03	0.000	0.000	20.000
	00:00	Stock	0	0	0	0.000	04	0.000	0.000	20.000
	00:00	Stock	0	0	0	0.000	05	0.000	0.000	20.000
05/31/17	00:00	Production Enter	52	52	1	1.000	02	1.000	21.000	21.000
06/20/17	00:00	Production Enter	61	61	1	8.000	01	8.000	8.000	29.000
06/23/17	00:00	Production Enter	64	64	1	1.000	01	1.000	9.000	30.000
06/26/17	00:00	Production Enter	65	65	1	1.000	01	1.000	10.000	31.000
06/27/17	00:00	Production Enter	66	66	1	1.000	02	1.000	22.000	32.000
06/27/17	00:00	Production Enter	67	67	1	1.000	02	1.000	23.000	33.000
06/27/17	00:00	Production Enter	68	68	1	1.000	01	1.000	11.000	34.000
06/27/17	00:00	Sales Exit	90	90	0	10.000	02	-10.000	13.000	24.000
06/27/17	00:00	Sales Exit	91	91	0	10.000	02	-10.000	3.000	14.000
06/27/17	00:00	Sales Exit	98	98	0	10.000	02	-10.000	-7.000	4.000

17.6. Material Account Diagram

To see the incoming and outgoing inventory transactions of an item on a diagram, open the Material Account Diagram. Drag a non-operation item, drop it on the 'Material Account Diagram' line, and then click on the line. The 'Material Account Diagram' form will open.



17.7. Operations Sequence Diagram

To see the MTO sequence of a production order, drag it, place it on the 'Operations Sequence Diagram' line, and then click on the line. The Operations Sequence Diagram will open.

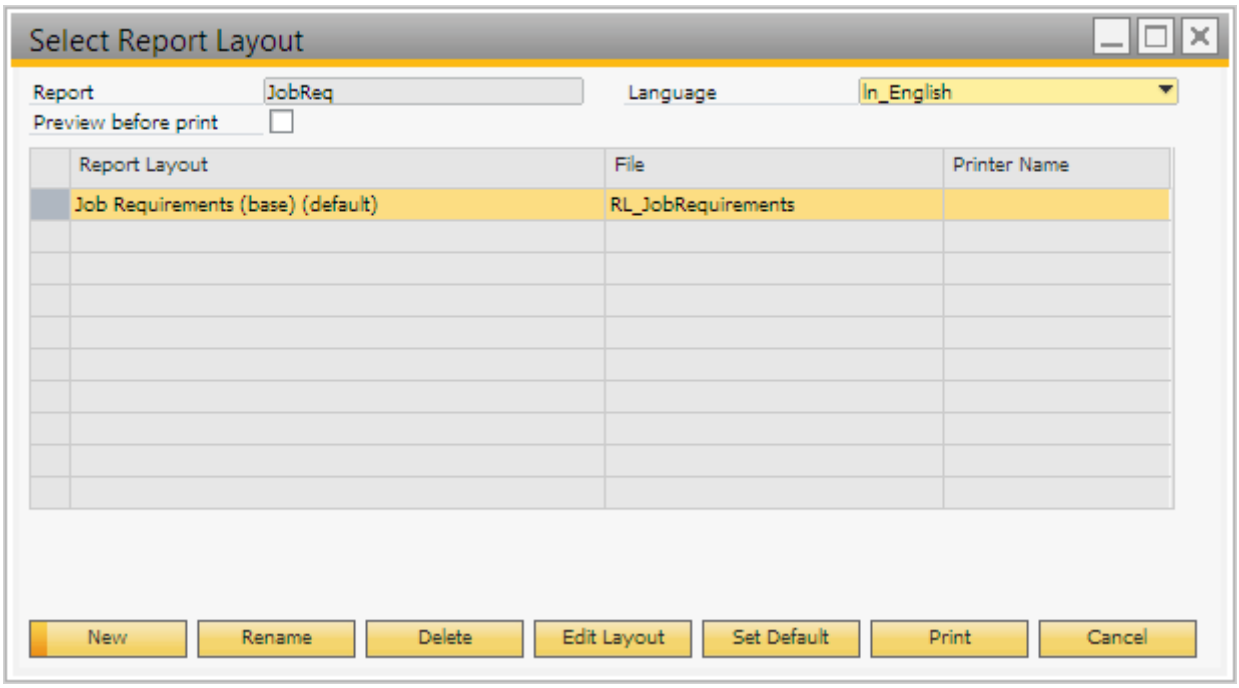
The operations sequence diagram can only be opened for release production orders that are part of an MTO chain.

17.8. Job Requirements Report

The Job Requirements report can be printed with the drag & relate function as well.

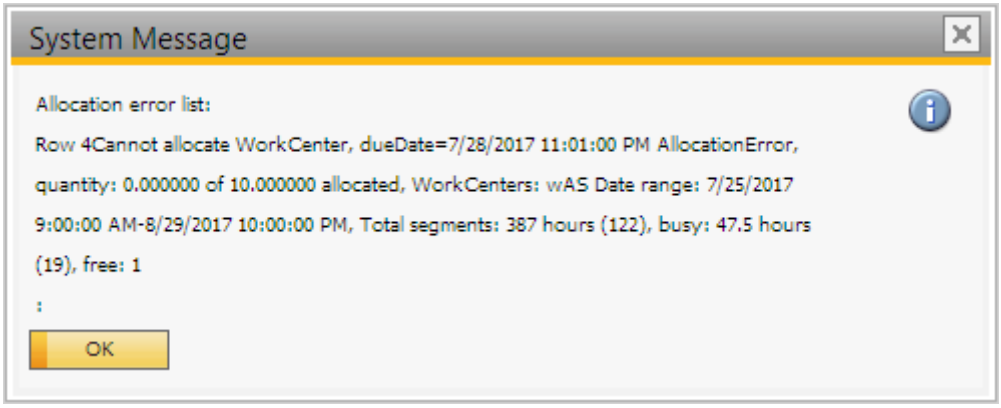
Drag a released production order, drop it on the 'Job Requirements Report' line, and then click on the line. The 'Select Report Layout' window will open up. After the report is selected, the system will print

the Job Requirements Report for the production order.

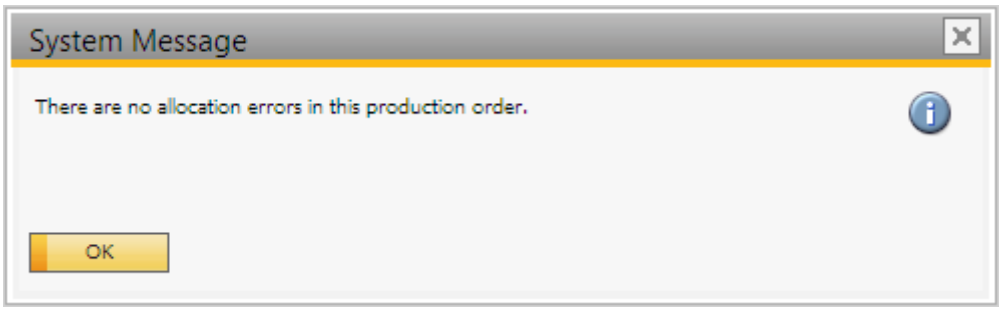


17.9. Allocation Status

To see the allocation status of a released production order, drag the production order, place it on the 'Allocation Status' line, and then click on the line. The Allocation error list window will open.



If there are no allocation errors, the following system message will open:



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