



# Make to Order

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NAVEKSA A/S

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# 1. Before you begin

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## Before you begin

You operate this manual by:

- Using the TOC – Table of content
- Expand / Collapse topics in table of content
- Using the Next / Previous at the end of each topic
- Using the subject direct links for further information
- When you hoover over a picture and see the + sign or a hand, clicking will enlarge the picture
- Using the Print subject function
- Using the Print manual function
- Using the seach bar
- Click on [NAVEKSA A/S](#) on the blue top line to switch to another manual
- Sending your feedback to NAVEKSA if you think something should be improved

Recommended background materials to explore:

- Microsoft Dynamics NAV manufacturing manuals available on Microsoft customer/partner source
- Scott Hamilton: Managing your supply chain using Dynamics NAV
- Peik Bech-Andersen: Manufacturing with Dynamics NAV

NAVEKSA solutions are all Microsoft certified applications (CfMD) working on top of Dynamics NAV version 2016 and newer, and 365 Business Central On-Premise versions; both C/AL and AL/Extension versions.

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## 2. Why Make to Order

### Why Make to Order

Suddenly the unexpected happens where you need to shift due dates for single production order or a subset of a multi-production project order network.

Well, under certain conditions, you can re-plan the production order for a new date, even though there are entries on the order, if the order item is of the Make-to-stock type.

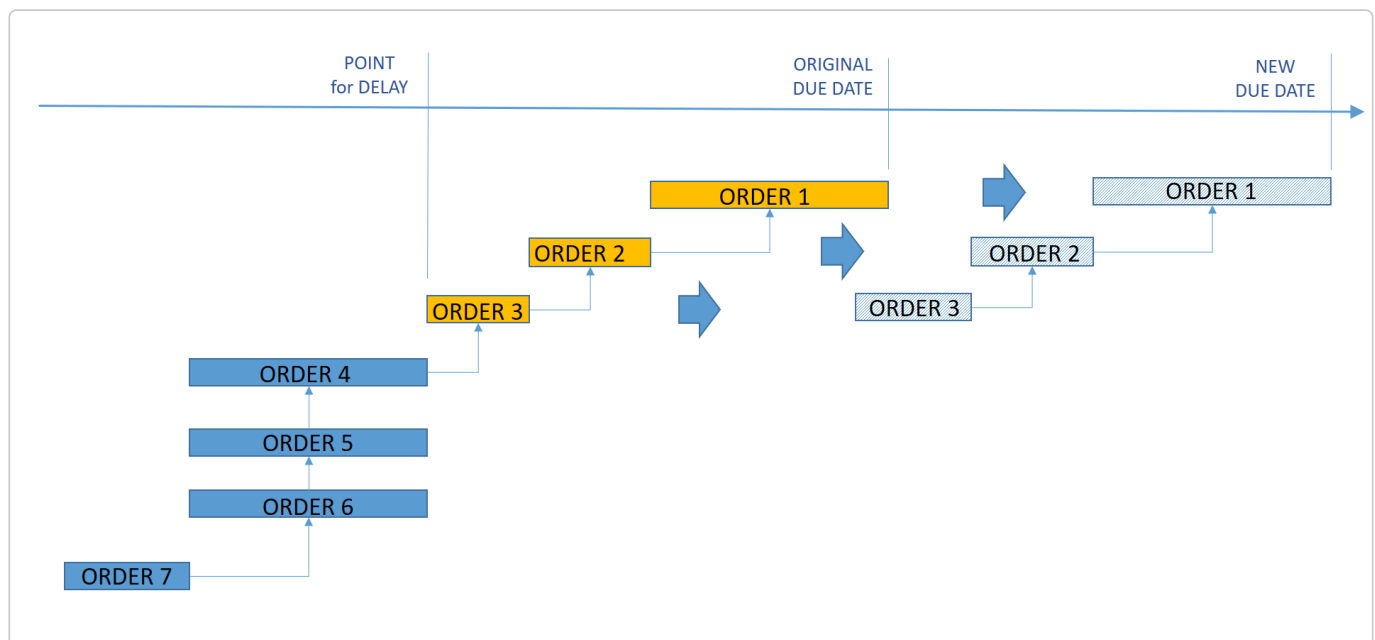
On the other hand, if the order item is of the Make-to-Order type, it is not possible to use the Re-plan function.

NAV will give a message that it is not possible to re-plan, or for that matter you cannot use the function "Refresh production order" either.

And it is for the same reason that we have made the make-to-order solution, which solves this problem for customers who run order-oriented.

And regardless of the production order being formed from a sales order, it consists of several production order lines, etc.

So this is here where the NAVEKSA Make to Order solution comes in.



Schematically it looks like this:

From a specific project production order line, you want to

- Re-schedule the line,
- Re-schedule all lines upwards,
- Re-schedule all lines downwards, or, Re-schedule in both directions.



Please notice that our method of changing a due date also works on a single production order line, or a subset of orders, down, up or up/down.

101049 - NAVEKSA finished demo item

**General**

No.: 101049  
 Description: NAVEKSA finished demo item  
 Description 2:  
 Source Type: Item  
 Source No.: NAVDEMO

Search Description: NAVEKSA FINISHED DEMO ITEM  
 Quantity: 5  
 Due Date: 14-02-2014  
 Assigned User ID:  
 Blocked:  
 Last Date Modified: 10-09-2014

**Lines**

Functions Line Find Filter Clear Filter

Item No.	Due Date	Description	Starting Date-Time	Ending Date-Time	Quantity	Unit of Mea...	Finished Quanti...	Remaining Qua...
NAVDEMO	13-02-2014	NAVEKSA finished demo item	12-02-2014 08:00	12-02-2014 08:00	5	STK	0	5
I-TECH-18	14-02-2014	NAV demo item	11-02-2014 09:30	14-02-2014 09:16:43,...	5	STK	0	5
MV25-I	30-01-2014	Fabricated item	27-01-2014 09:55	30-01-2014 16:00	5	STK	0	5
MV31-5	20-01-2014	Fabricated item	13-01-2014 15:50	20-01-2014 09:30	5	STK	0	5
RV57-M	13-01-2014	Purchased raw material	13-01-2014 08:00	13-01-2014 15:50	3	KG	0	3

**Forward-/Backwards-/ Bottleneck scheduling**

You see it here how it works in NAV:

Edit - Released Production Order - 101104 · Bicycle

HOME ACTIONS NAVIGATE REPORT

View Edit New Delete Manage Refresh Production Order... Prepare Reserve Replan... Planning Plan Change Status... Change Status Production Order Statistics Dimensions Comments

## 101104 · Bicycle

### General

No.: 101104 ... Search Description:

Description: Bicycle Quantity:

Description 2: Due Date:

Source Type: Item Assigned User ID:

Source No.: 1000 Blocked:

Last Date Modified:

### Lines

Functions Line New Find Filter Clear Filter

Item No.	Due Date	Description	Ending Date-Time
1000	25-01-2018	Bicycle	24-01-2018 16:00
1100	16-01-2018	Forhjul	16-01-2018 14:57
1300	16-01-2018	Kædesaml	16-01-2018 14:57
1200	16-01-2018	Baghjul	16-01-2018 14:57

Microsoft Dynamics NAV

Change this date only

Change all dates up/down

Change all dates up

Change all dates down

OK Cancel

**When using the NAV production orders as standard in a make-to-order environment, there are some limitations:**

1) The moment material or capacity consumption is posted on an order, you cannot use “Reschedule” or “Update production order” functions.

This is not feasible if something is “slipping” date wise and you are in a situation where you actually need to change a delivery date on one or more production order lines..

2) Standard NAV does not take queue time for the first production order operation into consideration when planning. Especially this is a problem when using the NAV project orders, where lower levels production deliver to higher levels in an order network. We have added this.

Logically and practically there must be some slack between going from one level of product into the next.

## 3. How to run Make to Order

### How to run Make to Order

NAVEKSA Make to Order runs off from NAV standard screen – Manufacturing – Released orders

1. A planner changes the Ending date/time (Due Date) on a production order line.
1. A new window shows up to let the planner make decisions about directions for the changes as can be seen on the next figure:

101040 · Kontorcentralen A/S

**General**

No.: 101040  
 Description: Kontorcentralen A/S  
 Description 2:  
 Source Type: Sales Header  
 Source No.: 1004

Search Description: KONTORCENTRALEN A/S  
 Quantity: 0  
 Due Date: 17-10-2014  
 Assigned User ID:  
 Blocked:  
 Last Date Modified:

**Lines**

Item No.	Due Date	Description	Starting Date-Time	Ending Date-Time	Quantity	Unit of Mea...	Finished Quanti...	Ren
NAVDEMO_CUSTOM	17-10-2014	Special malet til Hans Petersen	16-10-2014 08:00	16-10-2014 23:00			0	
P-I-TECH-18-CUSTOM	16-10-2014	NAV demo item	16-10-2014 06:30	16-10-2014 08:00			0	
I-TECH-18	07-10-2014	NAV demo item	06-10-2014 08:00	16-10-2014			0	
MV25-I	26-09-2014	Fabricated item	14-01-2014 11:25	26-09-2014 16:00			0	
MV31-5	26-09-2014	Fabricated item	22-09-2014 14:20	26-09-2014 16:00			0	
RV57-M	12-09-2014	Purchased raw material	11-09-2014 12:20	12-09-2014 14:20			0	

1. By pressing the OK button, the system will calculate a new planned starting Date Time for this production order line, and if there are multiple production order lines “up/down” in the order network, they will be adjusted accordingly with new order start and end dates, as well as adjust required dates for component and capacity allocations.
2. If this is the first production order line the Production order header due date is also updated.

Please observe that no date changes take place on the sales order line. This is a communication process to tell sales people if you change a production order due date.

**Queue time for the first order routing operation lines in every production order line are recognized in calculations of the start date and start time.**

This queue-time allowance is calculated on the basis queue time parameter from the work center / production resource for this first work center.

**Remark that order lines at the same levels (parallel production) get the same Ending date/time also.**



## 4. Advantages on using NAVEKSA Make to Order

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### Advantages on using NAVEKSA Make to Order

#### The NAVEKSA Make to Order has the following advantages over standard NAV.

- The NAV limitation of denied changing of dates on an order after posting consumption and/or output, has been circumvented .\*
- It is possible to change due date on a single order line, re-schedule a multi-line project production order network, a multi-line sales order derived production order.
- We have added the queue time element for the 1st routing operation\*
- Updating order dates result in the need to update component allocation and capacity requirements dates.\* We also do this as well.