

ShopFloor (SFL) add-on module to MS Dynamics NAV

Paperless and Real-Time Execution of Production Orders

An effective production planning and manufacturing execution system (MES) – controlled using a single screen cockpit for Planners and Operational Managers, and Windows based cockpit for the Operators.



Do you know the status of every production order on your plant floor?

Would you benefit from being able to distribute paperless orders and information throughout your production processes?

Give your operators a cockpit, which enables them to easily manage their assigned tasks – including start time, stop time, component consumptions and outputs.

Real-time data - in one cockpit

ShopFloor is a dual cockpit system. It offers production planners a complete view of the production process as well as real-time data reported directly from work-centre activity. Operators on the plant floor share this real-time flow of information using a windows based production execution interface.

Paperless communication between departments

With ShopFloor, you can introduce paperless and accurate communication between departments by collecting activity based data, reporting on Q&A activities, collecting time and attendance and have the ability to allocate serial- and lot number tracking. Many of our customers have reported a reduction in lead-time, reduced operating costs, and reduction of administrative time as a direct result of implementing ShopFloor.

” SHOPFLOOR FOR PRODUCTION AND PLANNING ENABLE US TO PLAN SIGNIFICANTLY BETTER AND MORE DETAILED AFTER THE INTRODUCTION OF THE NAVEKSA MODULE. WE CAN NOW SEE OUR LEAD TIMES, AND ARE ABLE TO GET OUR ORDERS DONE FASTER THAN BEFORE – WHICH IS A DEMAND FROM OUR CUSTOMERS ”

NICOLAJ BØJLUND ANDERSEN, CEO

TRECO A/S - MANUFACTURER OF MAILBOXES AND METAL CONSTRUCTIONS IN DENMARK

Complimentary Functionality to MS Dynamics NAV

ShopFloor is an intuitive tool for planning and sequencing the production. The operator execution secures real time updates for progress monitoring and data collection. ShopFloor is a Microsoft certified solution with zero impact on standard NAV code.

Scenarios for the factory shop floor planning and paperless execution of production orders	Using NAVEKSA ShopFloor to plan and control your execution	Using standard NAV tools _____				
Customer questions/requirements:	↓	Plan the factory floor production order sequence	Production order material/component shortage control	Production order capacity control	Reporting material consumption	Reporting output - finished production
We want a solution where operators themselves on a display, and in an easy way, can see what they work on right now, and what they shall work on later.	Use ShopFloor execution	No	No	No	N/A	N/A
We want a solution where the execution is paperless - instructions, drawings, communication, consumed time collection etc.	Use ShopFloor execution	No	No	No	N/A	N/A
We want a solution which handles modern execution - bundled production, operator multi-job including correct job time distribution	Use ShopFloor execution	No	No	No	No	No
We want a solution where the production planner is 100% in control of the execution sequence, priority, material shortages, capacity issues, and factory floor progress monitoring .	Use ShopFloor planning	Accommodates a traditional approach using retrospective info and issuing paper schedules	Accommodated using multiple screen interpretation	Accommodated using multiple screen interpretation	N/A	N/A
We want a solution where it is very easy to shift planned execution resources and level planned capacity	Use ShopFloor planning	Manual - in a different application	Manual - in a different application	Manual - in a different application - Watch out! Standard NAV operates with available capacity in the past.	N/A	N/A
We want an affordable factory floor display terminal as we need many of them. Does your solution comply with that?	ShopFloor execution runs on a limited NAV user.	No	No	No	N/A	N/A
We want in-line process quality assurance and control together with lot/serial number control	Use ShopFloor execution	No	No	No	N/A	N/A
We have a very important customer. Can we move his recent order(s) in front of all others for execution?	Yes	No	You can print a material shortage list	You can print job cards	N/A	Yes

Features and Main Functionalities

- Effective production planning and overview
- Single screen cockpit with real-time information
- Drawings, comments, instructions etc. paperless to the operator's cockpit
- Q&A inspection, reporting and management (enhancement module)
- Ability to change order priority
- Operator function for full traceability and serial numbers
- Automatic collection of data for calculations, etc.
- Full visibility of procurement costs Inventory simulation and result display + shortage control
- Simple and intuitive interface
- Time and attendance registration
- More than 20 advancements to standard MS Dynamics NAV core areas of functionality
- Multi-language, multi-location functionality.
- Certified by Microsoft (CFMD) for MS Dynamics NAV

Compatible with version 2013 R2 to 2017 of MS Dynamics NAV

ShopFloor can be implemented in only a few hours (plug and play). No object or code merge complexities.

The Planner Cockpit

Overview in one screen for the planners with your work in progress and incoming orders. See e.g. the order status, capacity and order notes. Manage routings, and prioritise your orders from the cockpit

SHOPFLOOR Planning Shop Work List

General

Code: 100
Name: Assembly department

ORDERS RUNNING

BOM Routing Detail Order Detail Drawing Priority ITEMPLAN

Setup 70 / Rur 1.102

Routing Progress	Started	Prod. Ord...	Prod. Res. No.	Item No.	Desc	Quantity	Finished
	STARTED	101039	100	MV2520	Fabric	200	0
	STARTED	101046	100	QA-32	NAV	3	0

100 - Assembly department

Options
View by: Day View as: Balance at Date

Lines

Period Start	Period Name	Capacity	Allocated Qty.	Availability After Orders	Load
17-03-2018	Saturday	286.560	1.325	285.235	0,5
18-03-2018	Sunday	286.560	1.325	285.235	0,5
19-03-2018	Monday	288.000	1.325	286.675	0,5

SHOPFLOOR Load

Previous Period Next Period Refresh Filter Clear Filter

ORDERS READY HERE

Routing Progress	Prod. Ord...	Item No.	Description	Operati... No.	Op. Description	Cap. %	Quantity	Finished
	101023	1001	Touring bicycle	40	Kontrol	1	30	0

ORDERS COMING HERE

Routing Progress	Prod. Ord...	Item No.	Description	Operati... No.	Op. Description	Cap. %	Quantity	Due Date	Capacity Date	Previous Operatio...
	101043	FAB13	Fabricated part 1	02000	Samleafdeling	---	5	24-01-2018	23-01-2018	01000
	101055	QA-32	NAV QA demo item	01000	Assembly & QC	---	5	25-01-2018	24-01-2018	00500

The Operator Cockpit

Overview for the operators of their work in progress and incoming orders.

Start, pause and stop jobs and manage materials, job time, quality reporting etc. from this cockpit, based on the planners' prioritisation

SHOP WORK LIST 100 - Assembly department End Week: Show All

ORDERS PROCESSING 100 (3) Search
 Show inactive jobs Setup 70 / Run 1,102

Status	Start	Multiple Lines	Prod. Order No.	Item No.	Prod.Res.	Description	Customer Order	Machine Ctr.	Operation No.	Op. Description	Quantity	Quantity ready	Quantity completed	Due Date
44	<input type="checkbox"/>	<input type="checkbox"/>	101039	MV2520	110	Fabricated item		100	01000	Fælgsamling	200	0	0	26-02-2018
49	<input type="checkbox"/>	<input type="checkbox"/>	101046	QA-32	110	NAV QA demo item		100	01000	Assembly & QC	3	3	0	25-01-2018
38	<input type="checkbox"/>	<input type="checkbox"/>	101022	FX-32	110	NAV demo item		100	01000	Samleafdeling	6	0	4	26-01-2018

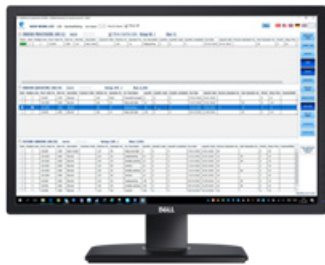
ORDERS QUEUEING 100 (1) Search
Setup 10 / Run 240

Start	Multiple Lines	Prod. Order No.	Item No.	Description	Customer Order	Machine Ctr.	Operation No.	Op. Description	Quantity	Quantity ready	Quantity completed	Due Date
<input type="checkbox"/>	<input type="checkbox"/>	101023	1001	Touring bicycle		110	40	Kontrol	30	30	0	13-02-2018

FUTURE ORDERS 100 (5) Search
Setup 85 / Run 40,860

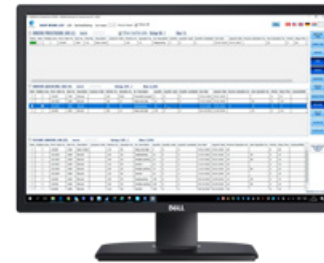
Start	Multiple Lines	Prod. Order No.	Item No.	Description	Customer Order	Machine Ctr.	Operation No.	Op. Description	Quantity	Quantity ready	Quantity completed	Due Date
<input type="checkbox"/>	<input type="checkbox"/>	101043	FAB13	Fabricated part 1		100	02000	Samleafdeling	5	0	0	24-01-2018
<input type="checkbox"/>	<input type="checkbox"/>	101055	QA-32	NAV QA demo item	1002	100	01000	Assembly & QC	5	0	0	27-01-2018
<input type="checkbox"/>	<input type="checkbox"/>	101023	1100	Front wheel		110	50	Fælg med dæk	30	0	0	15-02-2018
<input type="checkbox"/>	<input type="checkbox"/>	101023	1200	Back wheel		110	50	Fælg med dæk	30	0	0	22-02-2018
<input type="checkbox"/>	<input type="checkbox"/>	101012	MV2520	Fabricated item		130	02000	Anders Riis	50	0	0	24-08-2018

Enhancement Sub-Modules for NAVEKSA ShopFloor



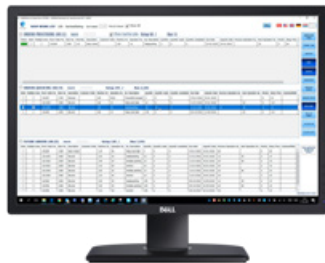
Sub-module for quality assurance, inspection & reporting (QA)

Create your own quality reporting system or implement your existing procedures into MS Dynamics NAV with this simple add-on to ShopFloor, and fulfill the demands of your clients.



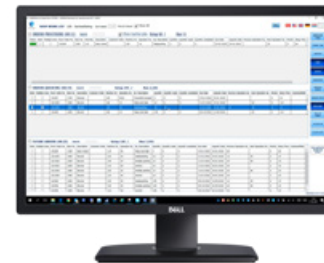
Sub-module for time and attendance registration (TA)

Register actual utilisation on man and machine hours on the jobs. Get a clear overview of your staff's attendance time.



Sub-module for variable material issuing– shortage check (VMI)

Maintain and adjust your existing bill of material according to actual usage. Handle project based material consumption without a pre-defined bill of material



Sub-module for batch, serial, lot number allocation (BSL)

Get full traceability on your items with allocation of batch, lot and serial numbers.



Contact us

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