

# demandPlus<sup>®</sup>

smart material planning

<https://demandPlus.info>

A Product by  **BRENKEL**  
solutions





# Material planning challenges



# Planner's quotes



- ✓ « How do we need to adjust the planning parameters? Overflow Level? Dampener Period? Eh?»
- ✓ « We are flooded daily with planning proposals. These cannot be processed at all within one business day. »
- ✓ « To be on the safe side, we choose a planning horizon of 12 months so that nothing gets through our fingers.»
- ✓ « Our demand dates are permanently overdue and mostly exceptions and warnings are suggested. »

- ✓ « Our Lead Time Calculations change constantly, but no one adapts the data in NAV. »
- ✓ « In order to be able to deliver, we constantly maintain extensive stocks. »
- ✓ « Our shelf warmers block valuable storage space. »
- ✓ « Why should I order this item? It doesn't have any order tracking at all? »
- ✓ « By the time you look at the proposals, they are already outdated by the current state... »

# The solution is available!

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**Planning Transparency**



**Planning Calibration**



**Pre- and Post Calculation**





# Module Planning Transparency



# Archiving the demand situation at planning



## Planning-Parameters

- Starting Date
- Ending Date
- Forecast
- Filter conditions

## MRP run

- Demand
- Supply
- Item's & Stockkeeping  
Unit's planning  
parameters

## Planning Worksheet

- Determination of the real  
order tracking
- Comparison  
MRP run <> Current

## Carry Out Action

- Supply's order tracking

# Visualize demand situation at the time of MRP run



- Available Balance graph
- Starting-/Ending Date of MRP run
- Due Date
- Reorder Point
- Safety Stock Quantity
- Time Bucket / Lot Accumulation Period





# Module Planning Calibration



# Planning Calibration



## Consumption calculated by working days

- Calculate various usage periods
- Formation of a median



## New ideal Reorder Point

Coverage of demand during the lead time calculation of the item



## New ideal Order Quantity

Based on the minimum value of storage costs vs. fixed order costs



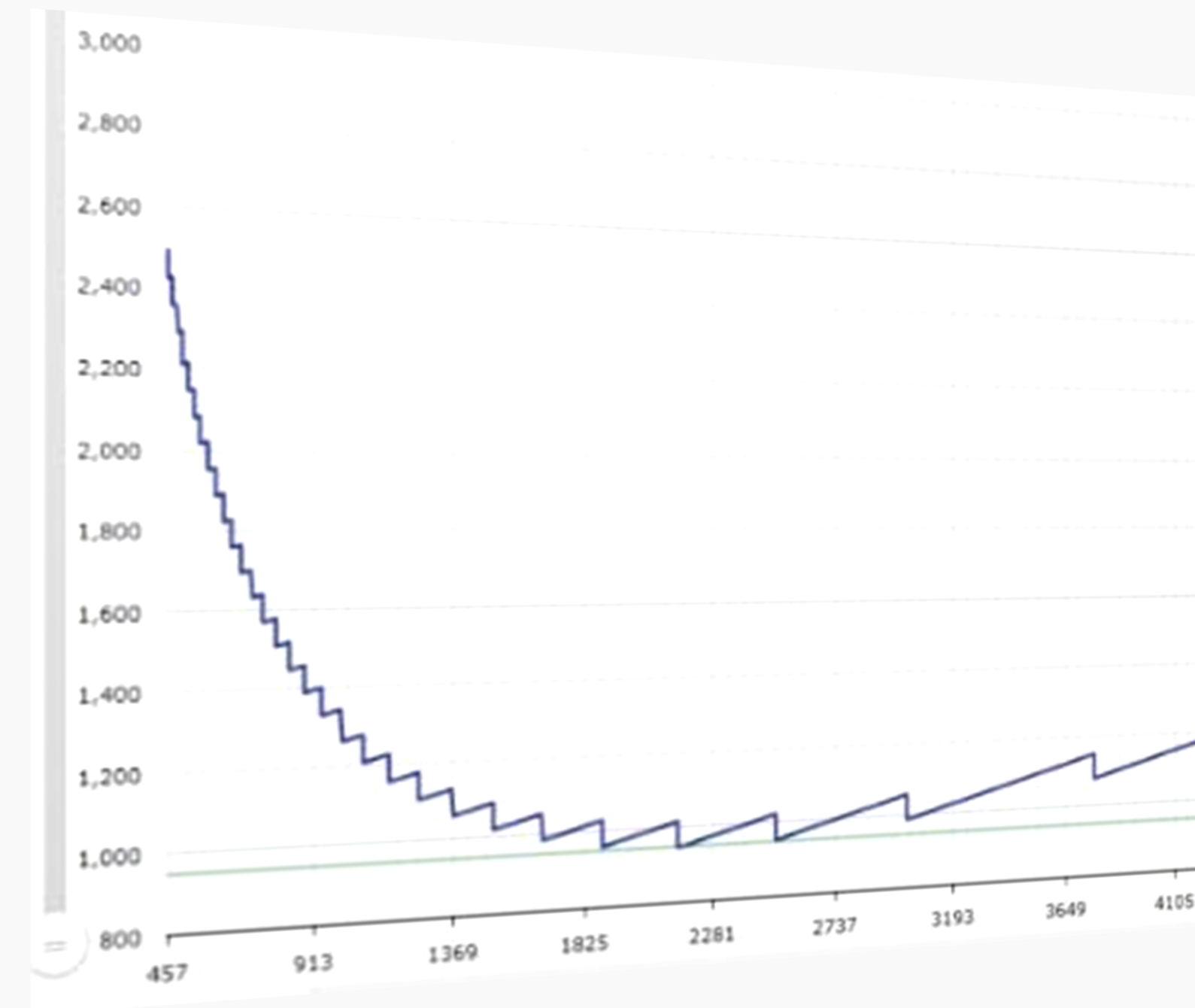
## Planungsvorlagen

- Definition of seasonal planning parameters
- Date dependency
- Automatic update by Job Queue



## Mass changing of Lead Time Calculation

After notification by Vendor







# Module Pre- and Postcalculation



# Pre Calculation

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## Lot sizes

Calculation and comparison of multiple lot sizes



## Pricing

- Consideration of price and quantity scales
- Consideration of lot size-dependent setup costs



## Individual surcharge rates

Individual surcharge rates for items, work center or machine center



## Bulk Calculation

Calculate multiple items and lot sizes at once.

Vorkalkulationsschema | Arbeitsdatum: 12.04.2021

PS00002 · Bicycle

Schema aktualisieren | Aktionen | Zugehörig | Weniger Optionen

✓ Gespeichert

**Allgemein**

Nr. PS00002

Beschreibung Bicycle

Erstellt am 01.06.2021 11:01

Erstellt von DOCKER

Berechnet am 01.06.2021 14:17

Berechnet von DOCKER

Artikelnr. 1000

Vorkalkulationsschemavorlagencode STANDARD

Vorkalkulationsvorgangsnr. PP00001

Bestes Ergebnis markieren

Schema | Verwalten

Rubrikennr.	Beschreibung	Zusammenzählungs...	Formel	Pro Stück	Losgröße 1	Losgröße 100	Losgröße 1.000
→ M10	Materialeinzelkosten	Artikel			274,27	274.274,00	274.274,00
M11	individueller Zuschlag	Individueller Zuschl...	M10		0,00	21,00	210,00
M20	Materialgemeinkosten	Formel	M10 * 0,3		82,28	8.228,22	82.282,20
M30	Materialkosten	Formel	M10 + M11 + M20		356,56	35.676,62	356.766,20
F10	Fertigungseinzelkosten - Arbeitsplatz	Arbeitsplatz			0,00	0,00	0,00
F11	Fertigungseinzelkosten - Arbeitsplatzgruppe	Arbeitsplatzgruppe			45,00	4.500,00	42.516,00
F20	Fertigungsgemeinkosten	Formel	(F10 + F11) * 1,2		54,00	5.400,00	51.019,20
F30	Fertigungskosten	Formel	F10 + F11 + F20		99,00	9.900,00	93.535,20
H10	Herstellkosten	Formel	M30 + F30		455,56	45.576,62	450.301,40
V10	Vertriebsgemeinkosten	Formel	H10 * (17/100)		77,44	7.748,03	76.551,24
V11	Verwaltungsgemeinkosten	Formel	H10 * 0,13		59,22	5.924,96	58.539,18



# Post Calculation



## Cost breakdown

- Trace each item back to the order
- Separate presentation of material, capacity and subcontracted costs across all manufacturing levels



## Revenues

Reporting of revenues and value entries for the corresponding output



## Individual surcharge rates

Individual surcharge rates for items, work center or machine center



## Bulk Calculation

Calculate and evaluate several items and variants simultaneously.

Nachkalkulation

POC00001 · Bicycle

Berechnen... Filter Aktionen Zugehörig Weniger Optionen

✓ Gespeichert

**Allgemein**

Artikelnr. 1000 Fertig gestellte Menge 42  
Beschreibung Bicycle Verkaufsmenge 27

**Schnellfilter**

Variantenfilter  
Fertigungsauftragsfilter 1011007

Zeilen Verwalten Zeile Weniger Optionen

Art	Nr.	Beschreibung	Menge	Einheitencode	Arbeitsgan...	Istkosten	Istpreis	Sollkosten	Sollpreis	FA-Nr.	Erw. Menge	Proportionaler Verbrauchsfak...	Lagerortcode	Bearbeit
→	Istmeldu...	1000	Bicycle	42	PCS	18.720,56	445,72751	19.256,32	458,4839	1011007	42	1		
	Istmeldu...	1100	Front Wheel	42	PCS	6.729,28	160,221	6.875,88	163,71148	1011007	42	1		
	Artikel	1110	Rim	42	PCS	44,10	1,05	44,10	1,05		2,100	1		
	Artikel	1120	Spokes	2.100	PCS	4.200,00	2,00	4.200,00	2,00		42	1		
	Artikel	1150	Front Hub	42	PCS	522,52	12,441	522,52	12,441		42	1		
	Artikel	1160	Tire	42	PCS	51,66	1,23	51,66	1,23		42	1		
	Artikel	1170	Tube	42	PCS	73,50	1,75	73,50	1,75		42	1		
	Arbeits...	100	Assembly department	200	MINUTES	10	240,00	1,20	324,00	1,20	270			
	Arbeits...	110	Drilling machine	100	MINUTES	20	1.100	11,00	11,00		100			