

Intelligent restocking **BITO Smart shelving**  
with radio or RFID communication



A BIT OF  
PRODUCTS



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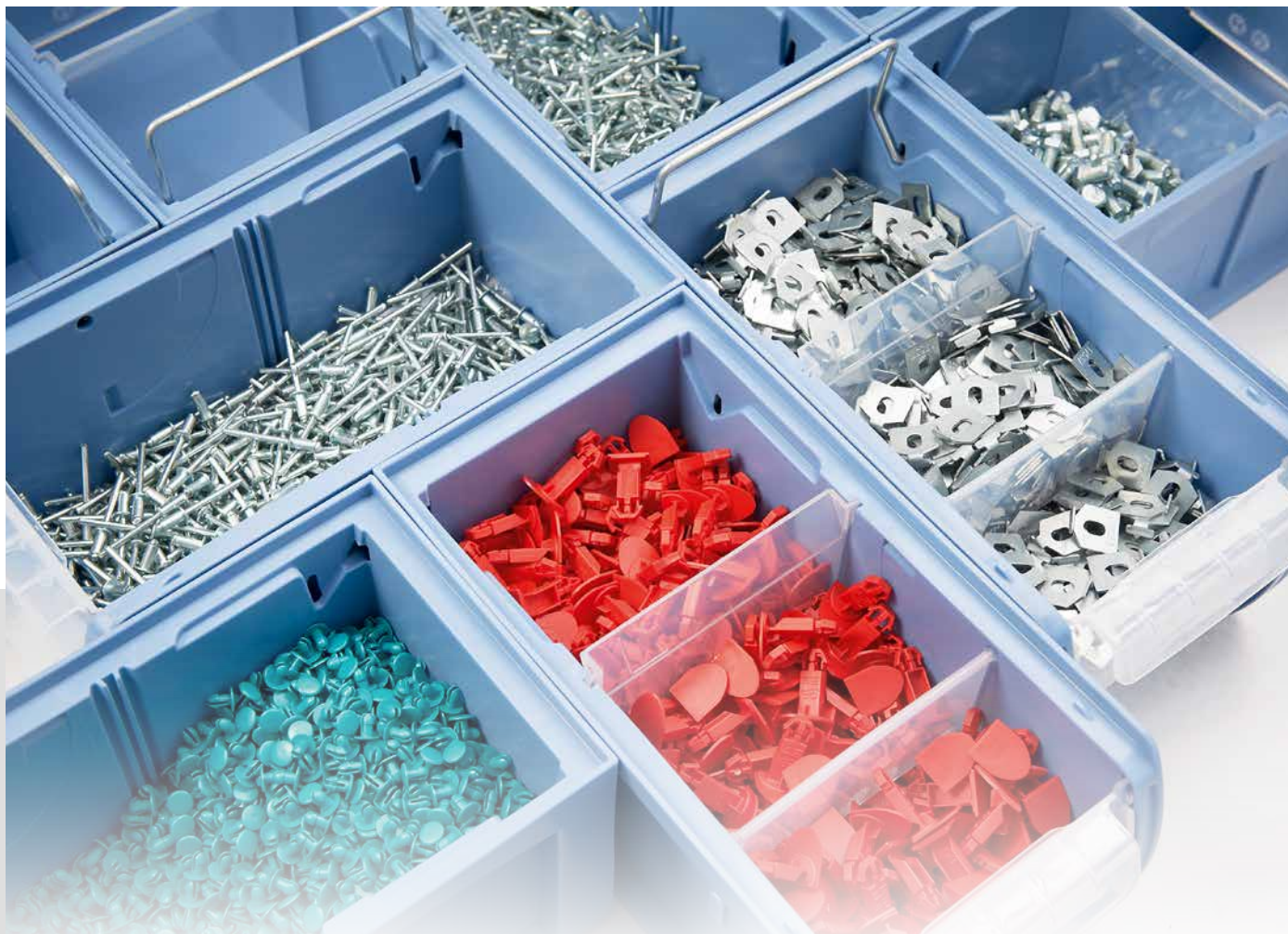


**BITO**  
STORAGE  
SOLUTIONS

# Automated restocking

## BITO Smart shelving

BITO Smart shelving is a cloud-based inventory management solution which monitors stock levels and initiates replenishment. It is used for example in production environments or in warehouses.



### Your carefree package

- ✓ Automates the inventory control process
- ✓ Avoids out-of-stock situations
- ✓ Sends automated replenishment alerts
- ✓ Identifies consumption peaks
- ✓ Eliminates late demand reporting and maverick buying
- ✓ Reduces tied-up capital and space requirements





**Intelligent replenishment  
- Let your shelving  
take care of reordering  
auxiliaries and C-parts**

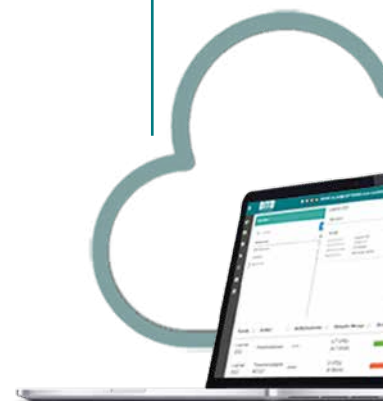
# BITO Smart shelving

with sensor technology

Weighing sensors report stock levels to the control unit which radio-transmits the information to the cloud. As soon as stocks are running low, the system automatically sends an alert notification by email.

Can be retro-fitted at any time

**BITO Cloud (secure & GDPR compliant)**  
REST API interface for easy integration with existing systems



BITO Pallet weighing sensor	
Wireless	Yes
Battery run time	More than 2 years
Stock level recording	Accurate to the piece
Load capacity	Up to 1,500 kg
Dimensions in mm	1,200 x 800
Suited for	Piece goods, liquids, bulk goods, unit loads

**BITO Gateway:**

Operates without IT integration, no Wi-Fi required in your warehouse



BITO Sensor unit	BITO Long-range sensor
Yes	Yes
More than 2 years	More than 2 years
Accurate to the piece	Accurate to the piece
Up to 20 kg; 2 units combined can handle 40 kg	Reading range up to 4,000 mm
120 x 171 x 28	Depending on model
Piece goods, liquids, bulk goods, unit loads	Stackable products, binned/palletised goods in carton or pallet live storage

# BITO Smart shelving

with RFID technology

Production workstations are equipped with RFID readers and tags, f.ex. a mat containing a microchip, and RFID-tagged bins containing stocked materials. The reader captures the bin identity code. As soon as the filling level has reached a critical amount, the system triggers a replenishment order. Since all important master data is stored in the BITO Cloud, the order can be sent immediately to the purchasing department or the supplier.

**Can be retro-fitted at any time**

**Master e-KanBan:** Operates without IT integration, no Wi-Fi required in your warehouse



	RFID mat
Wireless	No
Battery life	Power supply from the mains
Stock level recording	On a bin-by-bin basis
Load capacity	System-independent
Dimensions in mm	Customisable
Suited for	Shelving, carton live storage, Kanban systems with 2 or more bins

**BITO Cloud (secure & GDPR compliant)**  
 REST API interface for easy integration  
 with existing systems



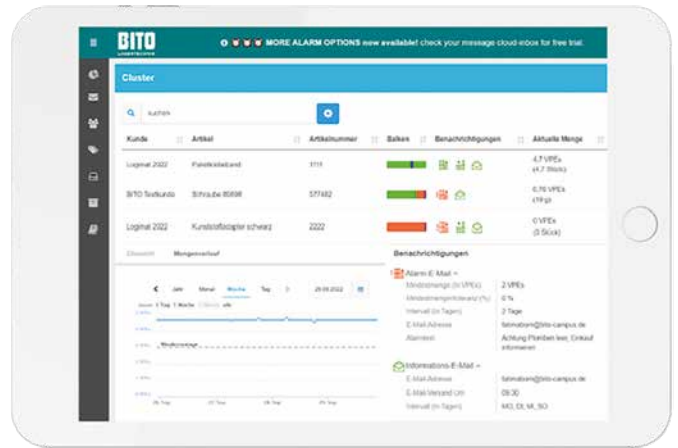
RFID Dropbox	RFID Letterbox
No	No
Power supply from the mains	Power supply from the mains
On a bin-by-bin basis	On a bin-by-bin basis
System-independent	System-independent
1,400 x 1,040 x 1,100	340 x 250 x 160
Collection points (e.g. for bins)	Electronic Kanban cards

# BITO Cloud Dashboard

## Cloud features:

- Secure & GDPR compliant
- Overview of master data of the monitored items
- Remote access and stock level control
- Alert notification by email
- Information email with overview of all important parameters
- REST API interface for integration with third-party systems

Remote access from any end device of your choice



## Special features in combination with sensor technology:

- Quantity analysis per item
- Individually adjustable measuring intervals
- Inventory control (on a piece-by-piece basis) at the push of a button
- Alarm function for battery status and last sensor measurement



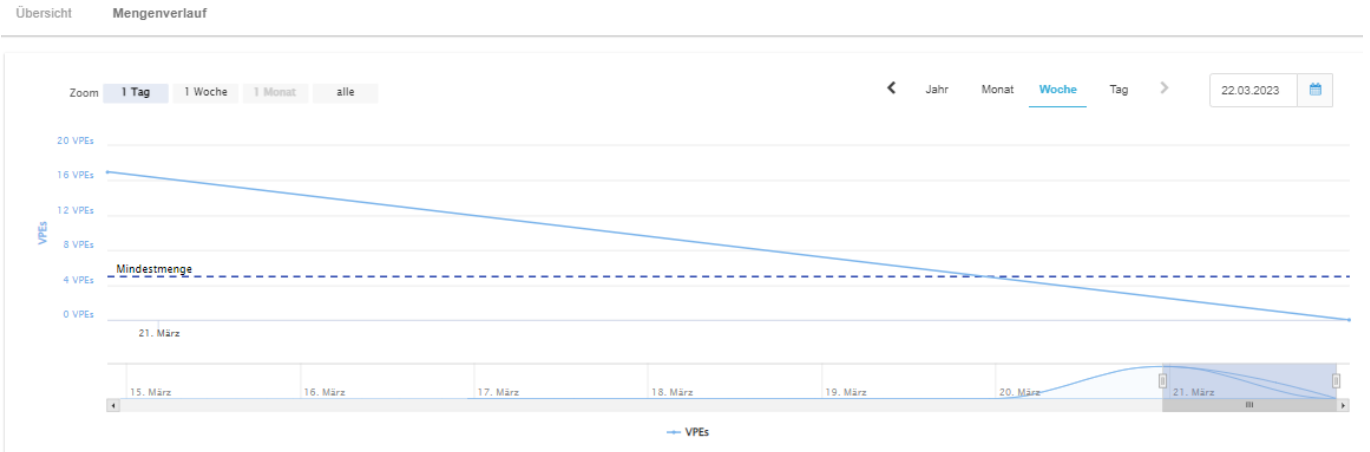
## Special features in combination with RFID technology:

- Consumption analysis on a bin-by-bin basis
- E-Kanban bin module
- Notification when stock is low
- Bin-based stocktaking
- Full bins can be booked into the system via scan, RFID or manually





Example: Stock history of any one item



As soon as the threshold value is reached, an email is automatically generated containing all important information.

Customer	Cost center	Cluster	Article		Minimum quantity			Quantity currently			latest measurement	Threshold value excess since	Alarm text
			Number	Name	Quantity	Measuring unit	Packing units	Quantity	Measuring unit	Packing units			
BITO Lagertechnik	plant Meisenheim/product-line 2157	2157/001-01-05	10000267	Basic Screw M6x20	10	piece	100	0	piece	0		29.12.2022 05:20	Restock 100 PCS
BITO Lagertechnik	plant Meisenheim/product-line 3358	3358/005-02-05	00023458	Basic Screw Nuts M12	10	piece	100	143	piece	143	02.05.2023 06:41		
BITO Lagertechnik	plant Meisenheim/product-line 3358	3358/005-02-11	6076017	Packing ring ave. 100	1	package	1	0	package	0			Restock 1 PKG
BITO Lagertechnik	plant Meisenheim/product-line 2398	2398/002-01-03	80014414	Flat washer M8 240	200	piece	100	123	piece	1		29.12.2022 05:20	Restock 100 PCS

At a definable time, e.g. 'Monday at 8:00 am', an email is generated showing an overview of all items and the corresponding stock levels.

Customer	Cost center	Cluster	Article		Minimum quantity			Quantity currently			latest measurement	Threshold value excess since	Alarm text
			Number	Name	Quantity	Measuring unit	Packing units	Quantity	Measuring unit	Packing units			
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# Intelligent restocking benefits both: production and procurement

## Challenges:

Auxiliaries such as lubricants, labels or hoses are not captured in the system during production. Replenishment processes are not triggered reliably. Employee A does not know whether employee B has already placed an order. Purchasing receives multiple requests, some of which are incomplete. All parties are frustrated that the replenishment process does not work automatically for such items.



### Production

Uncertainty about stock levels – stock levels of auxiliaries decrease unnoticed

### Production

Imminent operative stop – stock of auxiliaries is very low

### Purchasing

Ad-hoc notification – by call or email

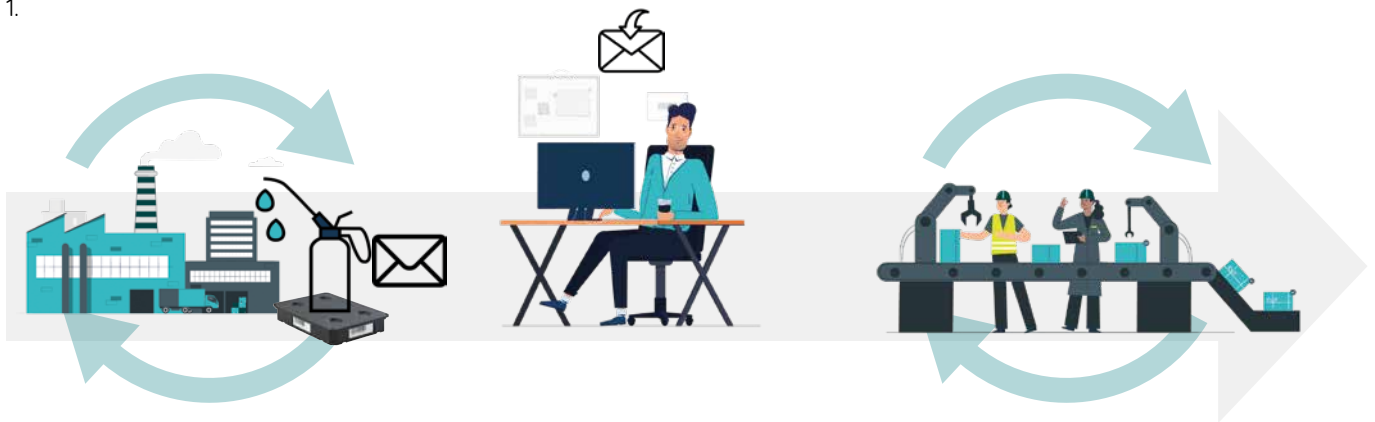


## Process automation

The auxiliary stock is equipped with a suitable sensor. All important information such as the master data of an item is stored in the cloud-based BITO Dashboard. In addition, the system sends a mail to the purchasing department as soon as the predefined threshold value is reached. This means no one has to worry about replenishment in production. Purchasing receives all the important information and orders the requested goods. Alternatively, the alert email can also be sent directly to the supplier to additionally ease the burden on purchasing.

There are several approaches to process automation:

1.



### Production

No interruptions at work – auxiliary materials are monitored by a weight-based sensor with access to the BITO cloud

### Purchasing

Remote viewing – purchasing is notified automatically by email

### Production

No interruptions at work – fully automated ordering

2.



### Production

No interruptions at work – auxiliary materials are monitored by a weight-based sensor with access to the BITO cloud

### Production

No interruptions at work – no human intervention required, fully automated ordering

### Purchasing

Is not involved.

### Supplier

Remote viewing – the supplier is notified automatically by email



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WE TAKE THE TIME  
TO GIVE ADVICE.

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