

KANBAN SUPPLY

C-parts management with ROM – REYHER Order Management



REYHER Kanban expertise

Even the smallest gap in material supplies, a single missing screw, can bring the assembly process to a standstill. That is why ROM – REYHER Order Management focuses on the secure and reliable supply of materials. The replenishment processes are based on the Kanban principle and the just-in-time philosophy.

ROM – REYHER Order Management consists of modular systems. Various modules cover logistics service parameters as well as electronic requirements and are customized to the individual needs of each customer. The solutions are ideal for high frequency as well as for sporadic needs of materials, and of course, they can be integrated seamlessly into existing logistics processes.

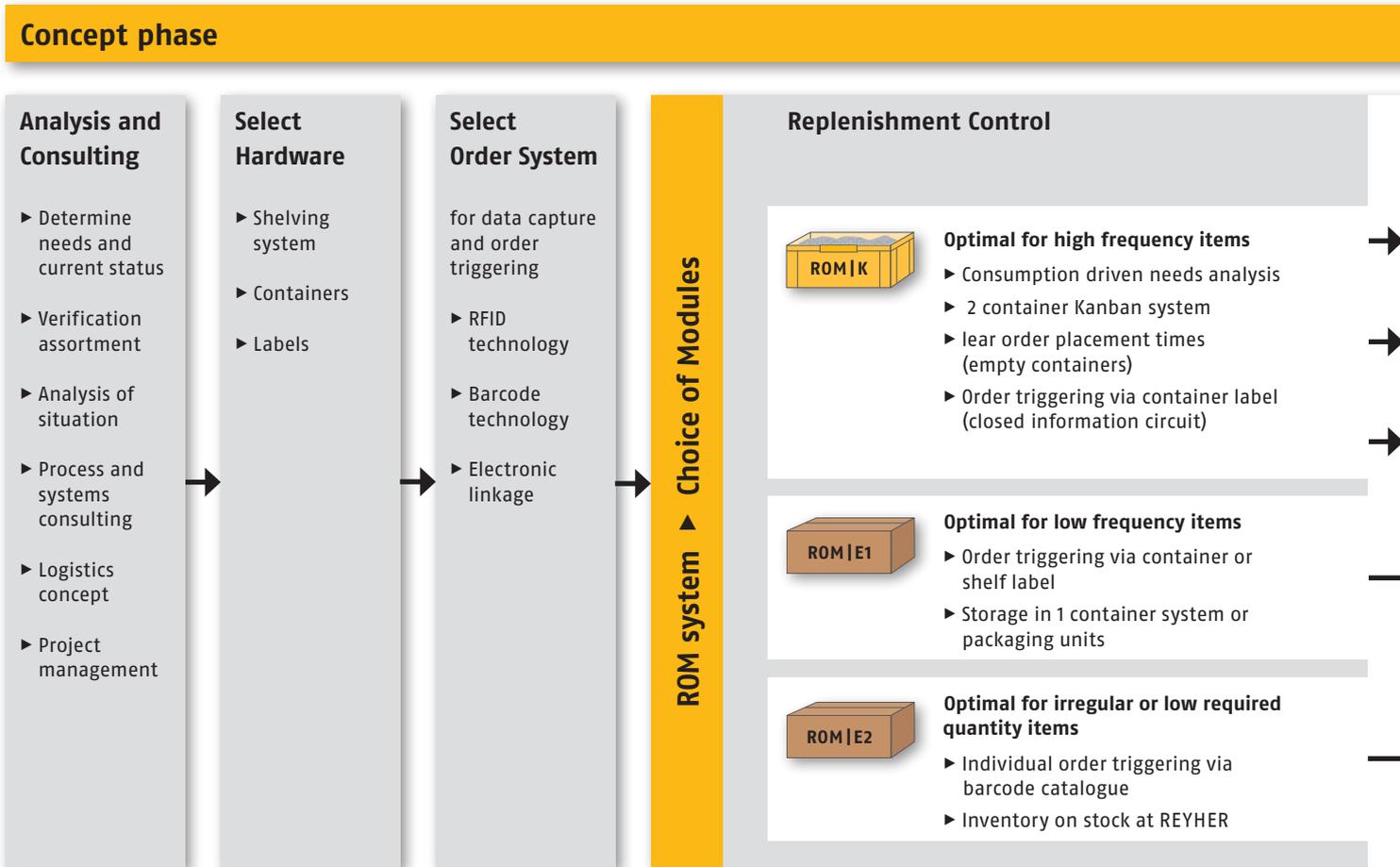
Automation will simplify order processing and needs analysis. We have in-house solutions available based on barcodes and RFID (Radio-Frequency Identification) technologies.

With the ROM systems REYHER can offer a secure material supply and the highest process reliability at the same time reducing procurement costs.

Each ROM system is tailored to the requirements and operational conditions for each individual customer. Our experienced project team will accompany you throughout the entire process from the early stage of planning, to system implementation and operations.

Benefit from our Kanban expertise and optimize your supply of C-parts in the production.

Realizing Kanban projects with REYHER – at a glance

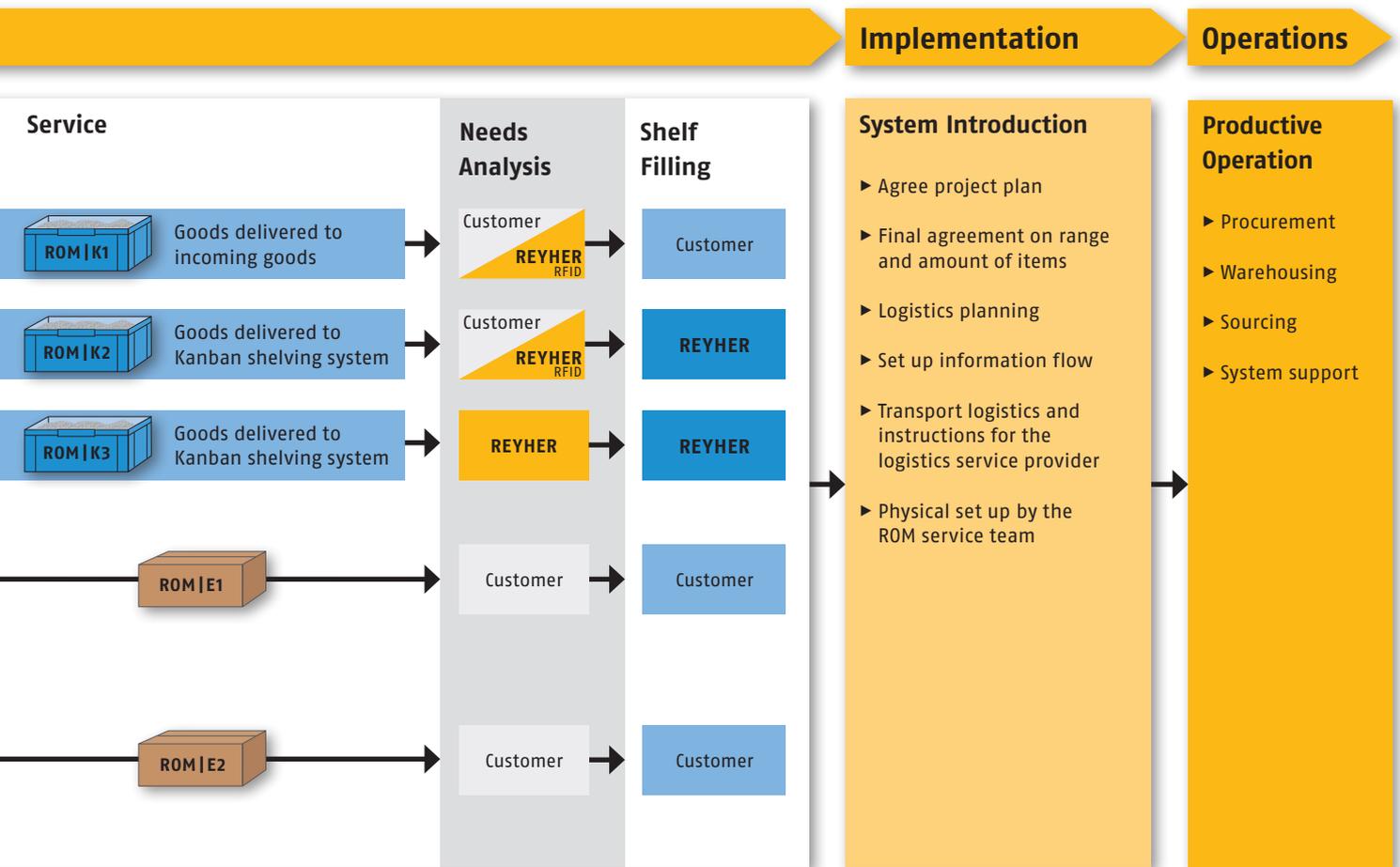


The REYHER dedicated Kanban team is at your service!



Reliable C-parts management with REYHER

- ✓ Provider of C-parts management systems since 1993
- ✓ Dedicated Kanban business team
- ✓ Over 360 ROM systems implemented Europe-wide
- ✓ Over 50 million Euros turnover with ROM customers
- ✓ In-house developed barcode and RFID technologies



Kanban hardware: shelves, containers and labels

The ROM Systems can combine various modules. This includes shelving systems and container types as well as individual labelling in line with customer requests.

■ Various shelving systems

The shelves are equipped at the front and rear with label holders made of transparent plastic. On the sides there is an option to add an information table with an aluminium folding frame, which can be used for example for a process description of the Kanban process or materials lists. Additional elements for marking the shelves can be provided according to individual customer requirement.

If there are already Kanban shelves with the necessary depth of at least 600 mm and suitable shelf load of approx. 200 kg then they can generally be used for the ROM System. This applies to flat bottom and sloped shelving systems, also to mobile, portable systems as well as roller-guided supply shelves and other shelving systems.

Flat bottom shelving system



Dimensions: width 1000 x depth 600 or 800 x height 2000 mm

Sloped shelving system



Dimensions: width 1300 x depth 600 or 800 x height 2000 mm

■ Individual labelling of shelves and containers

The labels for the shelf front and containers are designed customer specific. Each new delivery has new labels with current item information as well as extra information if requested by the customers. For racks with access from the rearside the labels carry the storage location making it easier to assign the goods.

Examples of container labels



Possible information on the label

- ▶ Barcode
- ▶ Product illustration
- ▶ Item description
- ▶ Item number
- ▶ Item dimensions
- ▶ Grade
- ▶ Material/coating
- ▶ Storage position
- ▶ Cost centre
- ▶ Container type
- ▶ Container filling quantity
- ▶ Container colour
- ▶ Delivery note number
- ▶ Delivery quantity
- ▶ Customer specific information
- ... etc.

Example of rearside shelf label



Selection of container series

■ Kanban-container ROM | LTB

ROM | LTB container with sliding mechanism



Transport



Removal

The ROM | LTB container is available in three different sizes:



ROM | LTB 3047

Dimensions: W 148 x D 297 x H 147 mm

Recommended filling weight:

max. approx. 10 kg

Colour: blue

ROM | LTB 3147

Dimensions: W 198 x D 297 x H 147 mm

Recommended filling weight:

max. approx. 12 kg

Colour: blue



ROM | LTB 4147

Dimensions: W 396 x D 297 x H 147 mm

Recommended filling weight:

max. approx. 15 kg

Colour: blue

■ LF series – Open front storage container SCHAEFER-Lagerfix

Colours: red, green, blue



▶ LF221

Dimensions: W 150 x D 235 x H 122 mm

Max. filling weight: approx. 8.5 kg

▶ LF321

Dimensions: W 209 x D 343 x H 145 mm

Max. filling weight: approx. 12.5 kg

▶ LF421

Dimensions: W 185 x D 380 x H 154 mm

Max. filling weight: approx. 12.5 kg

■ EF series – Euro containers SCHAEFER-Eurofix

Colours: green, blue



▶ EF3120

Dimensions: W 200 x D 300 x H 117 mm

Max. filling weight: approx. 10 kg

▶ EF4120

Dimensions: W 300 x D 400 x H 117 mm

Max. filling weight: approx. 15 kg

Kanban order system: data capture and order triggering

The ROM system offers a wide variety of ways to capture data and trigger orders, making it flexible enough to cover the conditions in your company – always geared towards optimizing your materials supply. Beginning with state-of-the-art barcode or RFID technologies, which do not require a PC, up to connections to the inventory control systems or ERP systems: All solutions are simple to use, fast in operation and transmission as well as very reliable.

■ High level of automation with RFID technology: Collection boxes, racks and pallets – three in-house solutions

RFID technology speeds up and simplifies order processing considerably. Intuitive user guidance requires no special knowledge for operating.

All solutions can be seamlessly integrated into existing Kanban systems. The following solutions are equipped with unique optional multiple item ordering.



ROM | READER ID

RFID label reading solution

With this system, RFID container labels – separately or still attached to the empty Kanban container – be recorded. The order information is automatically forwarded and a material replenishment hence generated.



ROM | RACK ID

Kanban rack solution

With this system, an intelligent shelf ensures that the relevant materials needed are registered in real-time: If a Kanban container is empty, then this is simply placed on the top shelf. Then the order is triggered via the ROM | RACK ID automatically:
identify – report – order



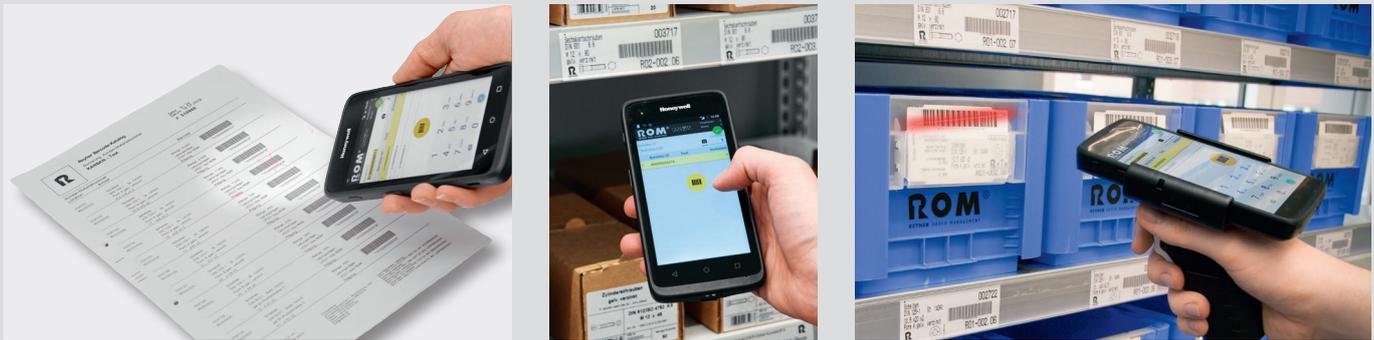
ROM | FLOOR ID (without casing) und

ROM | CASE ID (with casing)

Solutions for pallets as returnable collection containers

This system unites two process stages in one: collecting empty Kanban containers with simultaneous order triggering. The empty containers are simply placed on the pallet. The system registers the material needs and uses a radio signal to trigger an order. The pallet with the empty containers is collected on the next delivery day and replaced with an empty pallet – eliminating time-intensive container re-packing.

■ Cutting-edge barcode technology: Data capture using hand-held barcodescanner



Replenishment for ROM|K and ROM|E modules can be carried out using an MDE terminal – mobile data capture device. This consists of a hand scanner with LTE modem, charging and transmission station as well as a battery and power pack. It does not require a PC and can be used with all systems.

The mobile scanner reads the barcodes of the articles to be ordered from the labels or the barcode catalogue. If there is an additional need multiple orders for an article can be triggered.

The order is then transmitted to REYHER via mobile connection: Successful transmission is confirmed by transfer protocol (e.g. fax, email, EDI).

■ Connection to inventory control system and ERP systems: High-grade automation of Kanban processes

A further level of handling material supply is achieved by connecting your inventory control system or ERP system to the REYHER SAP system. Business data can then be exchanged automatically for the Kanban process.

We offer customized solutions, for example based on the message system standards EDIFACT, openTrans XML, iDoc-XML or VDA 49xx.

■ Sourcing and procurement with REYHER

A central service of ROM – REYHER Order Management is the handling of the sourcing and procurement of C-parts. Our customers can reduce administrative activities to a minimum and REYHER provides reliable, seamless materials supply of C-parts. Our inventory management system is geared to coping with seasonal fluctuation as well as sporadic or project use of materials. REYHER reduces storage capacity needed by our customers and ensures the supply of C-parts.



Needs	Information	Planning and sourcing	Storage	Delivery times
Serial use	Needs projection on materials	Automatic	Customer & REYHER	Immediate*
Project needs	Rolling requirements	Project-related	Customer & REYHER	Immediate*
Special needs	Single order or barcode scan impulse	Single orders	None	Product dependent

*After first delivery.



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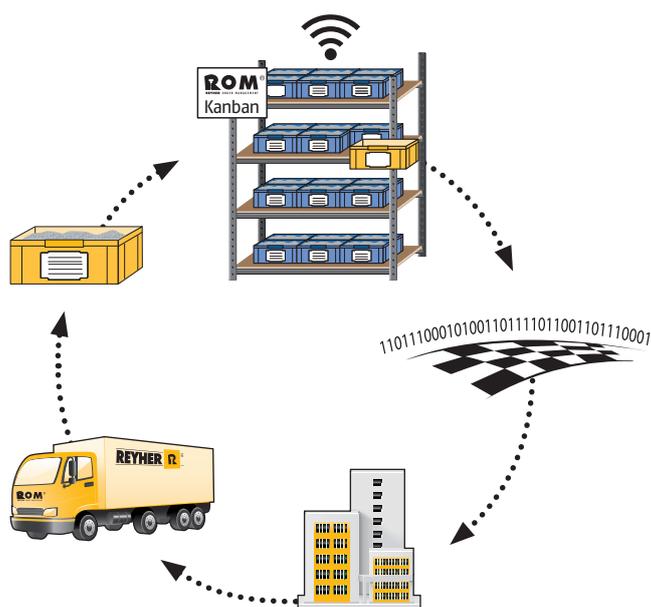
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■ Highest process and supply system reliability with ROM – REYHER Order Management

- ✓ Combinable logistics, services and interface modules
- ✓ Various shelving systems and container series
- ✓ Individual labelling
- ✓ Modern solutions for data capture and order triggering
- ✓ Sourcing and procurement



ROM Kanban flow



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