

# MADE TO MEASURE

Kanban is seen as an effective solution for efficient C-parts management, but if you're in need of a refresher or explainer on the topic, **Engel** has helpfully put one together...



**D**id you know that the procurement costs for C-parts are disproportionately high compared to the value of the goods? From the determination of requirements, to ordering, storage, administration, to monitoring and internal goods movements often account for 80% of the costs, while the material value is only 20%.

You want an efficient solution? Here kanban comes into play. But what exactly is kanban and what kind of systems exist?

The term kanban derives from the Japanese language and means "card" or "sign".

In 1947, Toyota developed the Kanban system as a method for organising just in-time production. The procedure is guided solely by the actual consumption of materials at the place of provision or consumption.

The reason why it was necessary to make changes to the production process is that productivity was relatively low compared to American competition at the time and inventories were costly to maintain.

Since these early days, the method has undergone constant improvement. "Pull" principles emerged with future-oriented overall concepts for logistics.

For 25 years, ENGEL has offered KANBAN systems as a C-Parts partner and now more than ever they are tailored to customers' individual requirements.

ENGEL offers the support of a strong, experienced C-parts supplier whose range of services exceeds that of a traditional customer/supplier relationship.

Whether the job calls for the classic multi-bin KANBAN system, scanner solutions, innovative RFID solutions or complex IT connections, ENGEL masters the ABC logistics and offers customised solutions for C-Parts management.

## ENGEL SYSTEMS AT A GLANCE

### E-Classic (proven| cost-effective)

Our classic two-/ multi- bin KANBAN system

This simple and affordable classic KANBAN system has been successful for more than 25 years. With our E-Classic KANBAN system you can realise the basic principles of lean management.

In the E-Classic KANBAN rack, there are at least two bins in a row for each item. If the front container is empty, your employee places it at the so-called "station" ready for pickup.

The second container, which is still full, slides to the front of the shelf and ensures that it is supplied as needed. The empty containers provided are collected by ENGEL at a set interval.

At the same time, a delivery of refilled containers from the previous collection takes place.

Our full service includes the delivery of the goods directly to your shelf. This self-controlling cycle guarantees constant availability of the required parts – without any administrative effort.

#### Advantages:

- Exceptional security of supply
- No processes done by the customer – full service
- Independent of technology

### E-Link (effective| space saving)

Two-/ multi-bin KANBAN system with E-Link/ RFID support  
Modern technology without the need for more space

The E-Link transmission unit is mounted directly on the shelf to save space. By holding the RFID tag inserted in the empty container, the data record is read out, transmitted to ENGEL and the filling of a new container is triggered at ENGEL. The new container is delivered to the customer with a new RFID tag even before the empty boxes are collected.

The data is transmitted autonomously via the mobile network (GSM) or optionally via WLAN.

#### Advantages:

- Flexible delivery intervals thanks to prompt placement of orders
- No additional space required
- Maximum optimisation of stocks and space utilisation

### E-Mat (convenient| fast)

Two-/ multi-bin KANBAN system with E-Link/ RFID support, makes it easy to get faster and more efficient!

With the E-Mat system, the empty totes are placed on the E-Mat shelf level.

The RFID tags on the container are immediately read by the electronic mat and sent to the transfer unit.

The transmission unit transmits your order directly to the ENGEL ERP system.

ENGEL delivers the goods ordered in this way in new boxes and with new RFID tags.

As with our E-Link system, data is transmitted autonomously and securely via the mobile phone network (GSM) or via WLAN.

#### Advantages:

- The fastest and easiest ordering solution
- Empty bins are integrated into the shelves
- The technology cannot be manipulated

### E-Box (central| integrable)

Two-/ multi-bin KANBAN system with E-Box/ RFID support  
A flexible positioning, integration in the system.

The E-Box from ENGEL works like a mailbox. You remove the RFID label from the front of the empty container and insert it into the E-Box. Here, a card feeder with stop function ensures error-free reading of the stored data.

The order is triggered automatically and immediately. We deliver a new filled container which is provided with a new RFID tag. The flexible location makes it possible to integrate the ENGEL KANBAN system into the existing production control system. The data is transmitted autonomously via the mobile network (GSM) or WLAN.

#### Advantages:

- One transmission unit
- Can be integrated into the production control system
- Cost-effective RFID-system

### E-Mobile (autonomous| flexible)

The flexible and mobile two-/ multi-bin KANBAN system.

It's the mobile and flexible solution for use throughout the company.

With E-Mobile, you record the empty containers independently of time and location with the hand-held scanner. This allows you unlimited mobility in your company.

The controlled order triggering is done by your authorised employees.

The data is transferred autonomously with GSM (mobile network) or WLAN.

No further modifications of your system are required.

#### Advantages:

- Defined responsibility for orders
- Visualisation of ordering process
- Works without RFID technology

### E-Scan (tidy | web-based)

Our one-bin KANBAN system ensures that your shelves are restocked quickly.

E-Scan is a streamlined process to reduce your costs and free up your staff. Thanks to the ENGEL scanner system you have the possibility to send your order easily and directly to us.

You scan the required articles in your warehouse via barcode labels, send your order via our WEB-Shop and receive the corresponding goods afterwards.

The storage is tidy and the appearance of up to 60 articles per shelf clean and clear.

#### PROCEDURE:

- We receive an item list from you with details of quantity and consumption
- ENGEL delivers the complete e-scan system with shelf, bin, barcode labels, scanner and software
- After installing the software, you can scan the desired items directly
- In the ENGEL-WEB portal you can open the order and make changes and order additional goods.
- Your order is sent directly to us by clicking the order button
- You will receive the order confirmation by mail
- Delivery takes place in a predefined cycle or immediately

#### Advantages:

- Fast and precise placement of orders
- Clean and manageable storage in high-quality bins
- Scanning and electronic data transfer makes work easier for your employees

### Special solutions (individual| innovative)

Customised special solutions

We work to find solutions to create an ideal system for your C-Parts management. All systems are flexible and can be dynamically expanded at any time.

## GOOD TO KNOW

### RFID (RADIO FREQUENCY IDENTIFICATION)

The RFID tag (chip) is integrated into the container label. The order is transmitted via GSM or WLAN. This gives you a contactless, direct and digital data transmission.

### How to become a "KANBANER"?

It's so easy to get off to a successful start in C-parts management – especially with ENGEL.

We will support you throughout the entire project, including a smooth start and beyond. In next to no time, you can take advantage of all the benefits of C-Parts management.

[www.schrauben-engel.de](http://www.schrauben-engel.de)

