

PRESS RELEASE

Always one step ahead – Maximum dependability for C-parts supply via RFID technology

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How can you increase supply dependability of the C-parts you need in production without losing flexibility? How can you identify peak demand periods ahead of time? How can you shorten response times with kanban systems without jeopardizing process reliability?

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Increasingly, most major international customers of Würth Industrie Service GmbH & Co. KG always want to be one step ahead of the competition, to find new ways of mapping in-house processes more effectively, and produce their products more dependably. One of the most innovative solutions in the market for more efficiently designing production lines and warehouses of producing industrial customers are the versatile, modular and innovative CPS®RFID system modules of Würth Industrie Service. They take this market development into account.

RFID - That stands for **R**adio **F**requency **I**dentification, a radio-controlled transmission of article and container data within a kanban system directly from the customer's production line to the central warehouse of Würth Industrie Service: Without scanning or manual recording of re-orders and without an employee having to intervene. The family of RFID system modules has a custom solution for every customer requirement. You can change the setup of individual modules quickly and easily to adapt to any work situation in the shortest amount of time. The basis for every data transmission in real time is the CPS®RFID label with integrated RFID tag (data medium), which reliably stores all necessary data such as container type, article number, name and filling quantity, and it is integrated in all of the following systems.

CPS®iShelf

With the CPS-iShelf, data is transferred from a shelf that is installed in the customer's kanban rack. The empty container is positioned on the "intelligent shelf" and RFID triggers a re-ordering of articles via the RFID label attached to the container.

CPS®iTagbox

When an RFID label is peeled away from the container and dropped into the mail box stationed at the racks, this immediately triggers a data transfer via RFID. The attached LED lamp signals the successful transmission of container information to the IT system of Würth Industrie Service and initiates the ordering process. This alternative is especially suited to pallet kanban.

CPS®iBox

The CPS®iBox is a pallet box that is placed on a separate space near the kanban rack. As soon as the empty containers are placed into the pallet box, the box transmits the data to Würth Industrie Service.

Kanban systems thus ensure maximum supply dependability, first, by completely avoiding human errors, providing a quick and transparent flow of information, and continuously transmitting data via RFID to Würth Industrie Service. Second, they let you analyze fluctuations in demand, in particular peak demand, down to the exact time, and thus continuously adjust the scheduling in the central warehouse of Würth Industrie Service. This ensures optimal availability of the right article, in the right amount, and at the right location and times in the production line.

In addition to individual systems, the CPS®RFID product family also includes the following standardized modules: With CPS®iPush, the order is triggered by pressing a button at the container that is integrated into the RFID label. CPS®iTurn and CPS®iRotate systems work by turning the container, which triggers the transmission of data via RFID and re-orders the articles. The only thing that is different about these two standard modules is the construction of the rack. CPS®iWeight triggers an automatic transmission of data when a container falls below a specific minimum weight; CPS®iSkid does the same thing when a pallet falls below a minimum weight.

Fig. 1:

CPS®RFID label with integrated RFID tag transmits all container data

Fig. 2:

CPS®iShelf – The intelligent shelf