PRESS RELEASE

Taking supply security to a new level – Optimised RFID iPALLET

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Bad Mergentheim/Main-Tauber-Kreis. With its various RFID systems, Würth Industrie Service GmbH & Co. KG has been ensuring maximum supply security along the entire value chain for over 20,000 customers for more than 10 years. In doing so, it is also essential to the company to focus on the further development of tried and tested systems. The C-Parts partner has demonstrated how it can be done with its intelligent iPALLET, which is a centralised and open RFID module that continuously scans its surrounding for transmitting the requirements, opening up new possibilities within the supply of production materials. With the latest option to add a casing or net for absorbing radiation, it has become possible to guarantee maximum security.

How will the transmission of the requirement be in the future? Would it not make sense to rely on fully automated systems, which apply lean management for the inventories, automate the reordering process and identify any fluctuations in demand at an early stage? This is achieved in a simple and secure manner with the supply of production materials via RFID Kanban. Along with industrial companies from different sectors, Würth Industrie Service continuously develops its RFID systems for the supply of production materials further, and thereby offers maximum supply security for various application scenarios. One of its latest developments is the "RFID palette" - iPALLET. Compared to the RFID modules that are currently being used, it is an open system for automatically triggering an order. The "pallet" continuously scans its surrounding and searches for new RFID tags for transmitting the requirements, which are placed accordingly. A display combined with four LEDs shows the number of Kanban bins as well as information on temperature, humidity and quality of reception. Information about bin status, product location and filling quantities as well as consumption analyses and turnover quantities can be retrieved at any time with just a few clicks by using the WIS portal as an online platform by Würth Industrie Service. With a width of 120 cm, a height of 80 cm and a depth of 70 cm, the system has a capacity of 150 RFID tags, which corresponds to a maximum of ten bin levels. iPALLET is especially suitable when there is a high demand for items. The bins can be placed directly on the iPALLET or on a stable Euro pallet. The transfer takes place directly per bin. The system can also be used for pallet cards equipped with an RFID tag. With the latest option to add a casing or net for absorbing radiation, the C-Parts partner has made it possible to guarantee maximum safety. However, customisation

according to the needs of respective customers remains the focus of all activities. Whether to use an open scanning system in combination with an absorber net or even a casing, or whether to keep it completely open, is entirely up to the customer. In a nutshell, iPALLET is particularly convincing with its continuous scanning, data transparency, and reduction of space requirements. In addition, it is always possible to reposition the system completely in a flexible and easy manner.

The foundation of success: Reliable RFID technology

Under the brand "CPS® C-Product Service", Würth Industrie Service offers manufacturing industry customers highly flexible Kanban solutions for efficient and transparent optimisation of existing production processes. In particular, fully digital systems from the CPS®RFID family are firmly established for replenishing production materials. Radio Frequency Identification (RFID) enables radio-controlled data transmission directly from the customer's production to the central warehouse of Würth Industrie Service. Through fully automated and demand-oriented reordering of production materials, industrial companies benefit from maximum supply and delivery security. The basis for all this is a Kanban bin. In the case of Würth Industrie Service, it is the patented Würth small load carrier, W-KLT®2.0. It is available in various sizes according to the VDA standard and is equipped with an RFID tag by default. Each transponder can be identified by a unique data security number. In the outgoing goods process, the ID of the bin is linked with the corresponding outgoing goods item. Through the various RFID systems, the ID of the bins can be read and transferred to the Kanban Management System of Würth Industrie Service for data transfer or automated re-ordering of C-Parts for production.

As an innovation pioneer, the C-Parts partner works on the continuous development of its systems, and the collaboration with its own customers as well as partners from science, trade and industry. The development in RFID is therefore far from complete and will be continued in different areas.

More information: https://www.wuerth-industrie.com/kanban-system

Images

Captions:

Image 1: iPALLET in combination with a net.jpg

Caption 1: With the latest option to add a casing or net for absorbing radiation, it has become possible to guarantee maximum security.

Image source 1: Archives of Würth Industrie Service GmbH & Co. KG

Image 2: iPALLET.jpg

Caption 2: Whether to use an open scanning system in combination with an absorber net or even a casing, or whether to keep it completely open, is entirely up to the customer.

Image source 2: Archives of Würth Industrie Service GmbH & Co. KG

Brief profile of Würth Industrie Service GmbH & Co. KG

Within the Würth Group, Würth Industrie Service GmbH & Co. KG is responsible for supplying to the industrial sector. Since its foundation in the year 1999, the company is located at Industriepark, Würth in Bad Mergentheim, Germany with over 1,750 employees.

As a one-stop C-Parts provider, the company offers its customers a specialised product range with over 1,400,000 items: from screws and tools to connection and fastening technology, technical chemicals as well as occupational safety solutions. Aside from the extensive standard product range, the strength of the company lies in its customer-specific, logistical and dispositive supply and service concepts as well as special parts. Under the service brand "CPS® – C-Product Service", the company offers modular solutions customised as per the customer's requirements. These consumption-based and demand-based systems streamline the processes for purchase, logistics and quality assurance while enabling the procurement of small parts in a cost-optimised manner. Logistic and dispositive services such as shelving systems that use scanners or a just-in-time supply using Kanban bin systems play a significant role in increasing productivity.