



+ Intralogistics

Würth Elektronik eiSos GmbH & Co. KG

Würth Elektronik eiSos GmbH & Co. KG develops, manufactures and sells electronic and electromechanical components for the electronics industry. As part of Würth Group, the world market leader for assembly and fastening technology, it ships its components all over the world. Würth Elektronik eiSos relies on the flexibility of PSIWms to handle the logistics processes in the central warehouse in Waldenburg, Germany.

The challenge

More than 30,000 passive components for industrial applications are stored in the central distribution warehouse in Waldenburg, Germany for worldwide shipping. Each day, employees pick an average of 2,000 orders with more than 4,500 items. Naturally, efficient processes are essential. To remain competitive in the future, plans were developed for the implementation of a fully automated warehouse. While PSIWms had previously been used for the manual,

Information



Industry: Electronics
Warehouse location: Waldenburg, Germany
Employees: 7.300 worldwide
Turnover: € 822 million (2019)

Deployed software: PSIWms

Realized interfaces:

- + ERP system (Alphaplan)
- + Shipping system (Anton)
- + Material flow computer (Savoye)
- + Pick-by-light

+ Reference project

” PSIWms is an efficient and flexibly scalable software for our specific processes and requirements for the future. True to our motto “more than you expect”.

Uwe Graf, Executive Logistics Manager Würth Elektronik eiSos Germany

Marko Kübler, Senior Specialist Logistics Software Würth Elektronik eiSos Germany



scanner-controlled warehouse, it should form the basis for the automation of logistics processes in the future. Among other things, the integration of storage location and batch management as well as automated order picking with batch and data code management according to first-in-first-out principle was targeted. Another condition for the implementation of the project: the restructuring and automation should be completed in several steps during operation.

The challenge

To carry out the modification during operation with as little risk as possible, a fallback scenario was set up with the help of the adaptive scenario management in PSIWms. This way, it was possible to switch back to the old configuration if problems occurred which fortunately was not required.

Today, the warehouse consists of an automatic inspection after goods receipt and a highly dynamic conveyor technology. First, the goods pass through a measuring tunnel which uses the material flow computer to forward all measurement data such as weight, dimensions and the barcode to PSIWms. Based on this data, goods are received.

Twenty order picking stations are equipped with pick-by-light and pick-to-light systems, up to four orders are processed in parallel (multi-order picking). In addition, new packing stations have been created where employees can pack shipments that are optimized for shipping based on unit packing optimization.

The packing stations receive, among other things, specifications for optimally nested packaging units. With the stored master data, PSIWms determines the electrostatic discharge sensitive components (ESD) which are directly forwarded to two separate, antistatic order picking stations. The storage process is additionally supported by value-added services in the form of notes. In the context of promotional activities, the order picker is, for example, instructed to add a brochure or the like.

Orders that correspond exactly to the stored packaging units are transported via a bypass directly from the shuttle via a dedicated conveyor line to the shipping lanes and thus do not burden the picking and packing stations. Another practical implementation is the garage mode which enables Würth Elektronik eiSos to use the conveyor system and to run all workstations down to empty for maintenance or testing.

In the warehouse process, the handling of so-called MSL (moisture sensitivity level) goods are relevant. These are components whose plastic parts should not be stored too dry to avoid breaks. The consideration of the storage at a specially designated storage area is carried out by PSIWms.

Fact sheet:

Users:

- + ca. 250

Language:

- + Deutsch und Englisch

Warehouse characteristics:

- + 11,180 sqm of storage area
- + up to 200,000 storage positions
- + 9 aisles shuttle warehouse with 38 levels
- + 99 level-changing shuttles
- + 2 double gondola lifts
- + 12 CEP goods receipt stations
- + 20 fully automated order picking stations; incl. special order picking stations for ESD articles (electrostatic discharge)
- + 16 packing stations
- + Control of 27 dispatch lanes depending on the shipping mode
- + Special storage for moisture sensitive articles (different temperature zones)
- + Re-reeling (in conjunction with rolled goods)
- + Automatic goods receipt via measuring tunnel (2D barcodes)

PSIWms functions in use:

- + Pick-by-light
- + Automatic test
- + Multi-level packaging units
- + Value-added services
- + Adaptive scenario management
- + Archive
- + Batch management
- + Multi-storage capability (interaction between locations in Waldenburg, Germany und Lyon, France)



PSI Logistics GmbH
Dircksenstraße 42-44 · 10178 Berlin · Germany
Phone: +49 30 2801-2850 · info@psilogistics.com
www.psilogistics.com