

European Central Warehouse for CONERGY AG, Zweibrücken



CONERGY AG is based in Hamburg and has the highest turnover of all solar energy companies in Europe. By building a new, extremely modern European central warehouse, CONERGY has brought all logistics activities under the banner of the Zweibrücken site in Rhineland-Palatinate, thus laying the foundation stone for even better customer service.

The 25,000m² storage area provides space for deliverables for both customers and projects, including solar modules, power inverters, and mounting components.

The tailored racking system, which is 8 metres high and covers two thirds of the warehouse, provides storage capacity for up to 20,000 modular pallets - with a value of up to EUR 15,000 per pallet. A third of the 25,000m² space provided by this distribution warehouse is dedicated to goods receipt, picking, and goods issue. Around 40 employees at the warehouse complex work to ensure that goods receipt and issue take place as quickly as possible on the 19 available loading platforms. The underlying processes are controlled by the PSIWms Warehouse Management System.

Logistics processes at CONERGY Zweibrücken

Up to 1,000 different articles produced by this leading system supplier in the regenerative energy field are stored at Zweibrücken whilst awaiting dispatch to destinations around the world. Up to 500 order items are processed per day. Incoming goods are checked upon delivery, their serial numbers are recorded, and all articles are entered into *PSIwms*. The software allocates bin locations in accordance with different options and strategies. The pallets handled at the warehouse can weigh in excess of 800 kg and have vastly differing dimensions. This means that automation technology cannot be used and standard pallets are rarely appropriate - instead, front and side-on fork lifts are used. *PSIwms* has an integrated, radio-based fork lift control system. The *PSIwms* Transport Control System selects fork lifts on the basis of features such as movement range, permitted loading equipment, and maximum weight. When processing incoming orders, *PSIwms* creates stock removal and picking orders using the man-to-goods picking method. The orders are transmitted to the mobile data acquisition devices on the fork lifts via a WLAN. Stock removal takes place on a First In, First Out (FIFO) basis. Once removed from stock, orders are combined and made ready for dispatch in the goods issue zone.

Special *PSIwms* functions at the Zweibrücken central warehouse

- Parts list functions
- Definable FIFO range for each article
- Storage bins for excess-width pallets
- Provision for bin, bay, and stack width
- Dynamic warehousing strategies, including an option for turning pallets
- Formation of warehousing routes for goods receipt
- Pack control (piece count) and serial number entry for packaging
- WMS order splitting for partial deliveries
- Integrated dispatch system for the creation of dispatch labels and data telecommunication to shipment carriers

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