

Coburger Kartonagenfabrik GmbH & Co.KG

Brief profile:

Coburger Kartonagenfabrik GmbH & Co.KG was founded in 1957 in a garage and has grown steadily ever since. Today, the company with its approximately 300 employees produces more than 5 million folding cartons per day in three shifts (24/5). Its customers are located throughout Europe and come from a wide range of industries.

Further information is available online at www.coka.de

Requirements and application

Objectives:

- ✓ Retrieval and processing of logistics data during the assembly of manufacturing machines
- ✓ Mapping of the entire value chain
- ✓ Support of employees in production logistics
- ✓ Paperless picking
- ✓ Documentation of processing status
- ✓ Acceleration of workflows

IPC requirements:

- ✓ Completely enclosed, dust-tight design
- ✓ Easy-to-read display with multi-touch
- ✓ Mounting on forklifts and industrial trucks
- ✓ Compact dimensions
- ✓ Adjustable screen brightness
- ✓ Resistance to shocks, vibrations
- ✓ Running safety and stability
- ✓ Easy maintenance and mounting
- ✓ Easy, intuitive handling by employees
- ✓ Operation with bare fingers and standard gloves

Components at a glance

Hardware:

- Logistics series L12 forklift terminal
- In-house developed noax all-in-one motherboard
- Input: particularly robust, capacitive multi-touch screen
- Bright, high-contrast TFT display
- IP66 protection standard
- Completely enclosed, without external fan

Software:

- Operating system: Windows 10
- ERP system: SAP S/4HANA
- PrimaV (packaging) of SSH GmbH (<https://ssh-gmbh.de>)



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Case Study arranged 2021

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User report

Coburger Kartonagenfabrik GmbH & Co.KG

noax logistics terminals improve the internal processes at a manufacturer of packaging



For over 60 years, this packaging manufacturer has held its own in international markets and supplies well-known companies in the food and non-food sectors worldwide. It offers its employees an attractive working environment with state-of-the-art equipment. This includes the noax logistics terminals. Their clear design, reliability and ease of operation make a significant contribution to optimizing processes in logistics. In the warehouse and on the shop floor, the reliability and robustness of the terminals guarantee smooth processes. With positive effects on the employees: if the environment is right, work is simply fun!

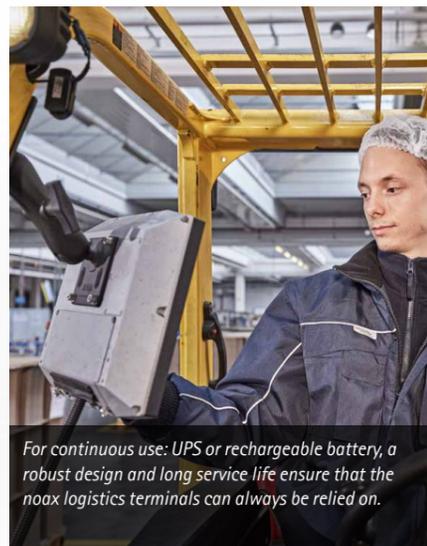
noax Logistics Terminals - THE Combination of Robustness and Cleverness

24-hour reliability - as smart as a smartphone, as robust as an industrial PC

Question: What do hexagonal bolts for metal threads, strawberry yogurt cake, statement sneakers and Franconian smoked sausage have in common? Answer: All these products need sturdy packaging to get them safely to stores or to customers. Such cardboard packaging is produced by Coburger Kartonagenfabrik GmbH & Co.KG at its site in Dörfles-Esbach near Coburg. The range of customers includes a wide variety of industries such as sporting goods manufacturers, automotive suppliers, large butchers and toy manufacturers. Regardless of whether the customer's product requires large or small, double or single flutes, folds or plug-in systems - the Coburg cardboard box factory finds the right solution for every product. Coka products meet the requirements of an ecological packaging solution because the starting material, i.e. the cardboard, is made of wood and is therefore fully recyclable and does not contain any plastic components. In order to produce cardboard packaging, the raw product goes through various processing steps: printing, laminating, which means forming corrugations, cutting, possibly incorporating folds and the like. The raw material is first wound onto rolls almost as high as a man. One roll has a diameter of about 4 feet and a weight of about 1.4 tons. Unrolled, there are about 7 miles of material on one roll. This distance would take a trained cyclist about half an hour on level ground.

Robustness as a selling point

To bring the rolls to the machines where the cardboard is processed, the Coburg cardboard factory uses special stackers with a round gripper arm. These stackers are equipped with noax L12 logistics terminals. The terminals serve as a means of communication for the drivers: on them, they can see the current orders and post their processing status. The noax L series terminals were specially developed for use on forklifts and other industrial trucks. In addition to their robustness, noax logistics PCs have a number of features specially designed for tasks in logistics. The special logistics terminals can withstand shocks and vibrations particularly well, especially



For continuous use: UPS or rechargeable battery, a robust design and long service life ensure that the noax logistics terminals can always be relied on.

since all movements of the vehicles are also transmitted to the computers.

It was precisely this resistance that led those responsible at the Coburg cardboard box factory to choose noax. In addition, the logistics computers are equipped with an uninterruptible power supply (UPS). Should the power fail at short notice, the UPS guarantees that important data will not be lost. With the terminals, mounted on the forklifts in the Coburg warehouses, attention was paid to one another special feature: As soon as the driver turns the ignition key, the logistics computer starts automatically and is ready to use immediately; this means that work is not held up by a lengthy start-up of the terminals. When drivers take a short break, the noax forklift terminals first go into standby mode and only shut down completely ten minutes later. This feature was also important to those responsible in Coburg.

As Simple as a Smartphone

The logistics terminals from noax are characterized by their slim, narrow and modern design. This allows the logistics computers to be mounted easily and safely on forklifts and other industrial trucks. Their small dimensions allow drivers to move the vehicles quickly and safely through the aisles while keeping an eye out for paths and obstacles. One point that one driver particularly emphasized was ergonomics: „The terminals are so compact that I can still keep a close eye on everything else on the forklift, and that's particularly

Reliable communication for every packaging requirement: Thanks to the noax logistics terminals the data is transmitted in real time transmitted via WLAN.



when things have to move quickly." Those responsible in Coburg opted for the 12 inch screen. On this display, the digits and buttons appear large enough for comfortable reading and operation, but at the same time offer a clear view in all directions. The forklift terminals are equipped with multi-touch, which is familiar from smartphones. This makes familiarization and getting used to the forklift PCs much easier. Just as with a smartphone, screen elements can be made larger or smaller by dragging them with two fingers, so that you can quickly see all the information you need at a glance. The logistics terminals from noax are also characterized by their ease of use - whether with small or large hands, with standard gloves or without. None of this is a problem for noax terminals. A logistics employee, for example, reports: „I have quite thin fingers, but the touch reacts immediately when I touch it. It works even when my fingers are cold. With the previous model, I always had to press long and hard with my thumb." The entire order processing can be controlled via the logistics computers on the forklifts: the creation of new orders, their processing status, inventory overview of the warehouse and much more. For this purpose, the Coburg plant has installed the PrimaV software from the German developer SSH GmbH on the computers. The modular system was designed specifically for the packaging industry and has components for quotation calculation, order management, warehouse and logistics, production and business intelligence, among others.

This means the entire value chain at the Coburg carton factory.

Everything Illuminated

Until the new noax logistics terminals were installed on the vehicles in the Coburg warehouse, employees recorded data using barcodes and handheld devices. These devices had to be operated with a special touch pen, which failed frequently and generally had a repair time of about three months. As a result, the hand-helds were often at customer service, which meant employees couldn't complete orders as quickly because the hardware was missing... In addition, only 12 access points were available for communication and data ex-



User-friendly: The multi-touch of the noax logistics terminal allows zooming, zooming out and moving the screen elements even with standard gloves.

change throughout the company. In wireless holes, communication simply broke down and data was not transmitted to the system. In addition, cardboard and paper, especially when slightly damp, shield WLAN signals and thus also hinder communication. The obvious disadvantages annoyed employees so much that they repeatedly expressed their desire for a better system. The IT team leader reports: „We got to know the noax terminals at the SPS and Logimat trade shows and were absolutely thrilled. So robust, so stable! The choice for noax was then made very quickly." However, not only the hardware on the vehicles but also the software and the entire ERP system including data entry devices were renewed. By the end of the year, the IT specialists were working flat out to get everything ready for takeoff. For the inventory, the employees in the warehouse had a new WLAN with 64 access points and, above all, new forklift terminals. During the annual inventory, the hardware and software were able to demonstrate their capabilities. The new system passed this baptism by fire with flying colors. There were no major problems, as the IT team leader reported: „Some employees still had to get use to the unfamiliar software, but otherwise everything ran like clockwork." He continued, „There have never been any problems with the terminals, and this has been the case since installation. The decision to go with noax was spot on!"

„Everything the sales department told us was true."