



ELAM LOGISTICS

Shape and optimize production logistics with the
ELAM system.



FORWARD-LOOKING SUPPORT WITH ELAM LOGISTICS

If your goal is frictionless, efficient production, one of the things you always need is sufficient material to be available at work stations. This is connected with the information how components need to be handled. The supply chain for materials in your production should be secure, flexible and transparent. This is not easy to achieve, given the constant introduction of new variants and ever more complex manufacturing processes.

That requires a form of production logistics that supplies your assembly stations optimally with materials at a consistent, high level. This production logistics should be supported by a software platform that allows your employees to fulfil the requirements to the fullest extent.

The ELAM system is such a software platform. and can be available to all stationary and mobile work stations. ELAM can connect your production departments in the best possible way. ELAM thus links goods receipt to warehousing, order picking to assembly and the test area with shipping. This makes a platform that creates its own ecosystem with all the bridges and onnections your company needs.

Your employees will immediately be able to orient themselves within the software intuitively, or be able to complete their tasks after brief instruction



GOODS RECEIPT

Goods receipt usually stands at the start of the process chain. Here parts are checked for correctness and completeness, deliveries noted and incoming checks carried out. Often, materials need to be repackaged for storage or manufacture. In any case, defects need to be determined and complaints sent, otherwise the goods will have to be paid in full despite defects. The process is different when hidden defects are discovered. To ensure these can still be traced later on, batch tracing is essential.

For some customers, we have implemented branched processes in goods receipt, carrying out measurements, setting storage locations, initiating subsequent work of logging parts as blocked based on the task at hand. Increasingly, test processes are also required by quality checks on goods receipt. In any case, the batch number needs to be identified and applied in the subsequent sequence. These batch numbers can later be searched for. The batch numbers are assigned to the product like serial numbers.



ELAM BATCH TRACING

Do you want to find out by scanning a barcode what batch a certain material comes from and at which workplaces it is processed - effective batch tracing?

ELAM batch tracing allows us to connect the goods with the batch via an attached scan code. Already at the assembly stage, a simple scanning of the material, batch number and quantity of components in the batch can be recorded. Depending on the component, the ELAM system can check what quantities should be removed from the batch at the corresponding removal TAF. In the connected product lifecycle archive, the following information is then documented:

quantity taken according to BOM
Overbooking Batch
number Remaining
number Material
quantity

Batch information



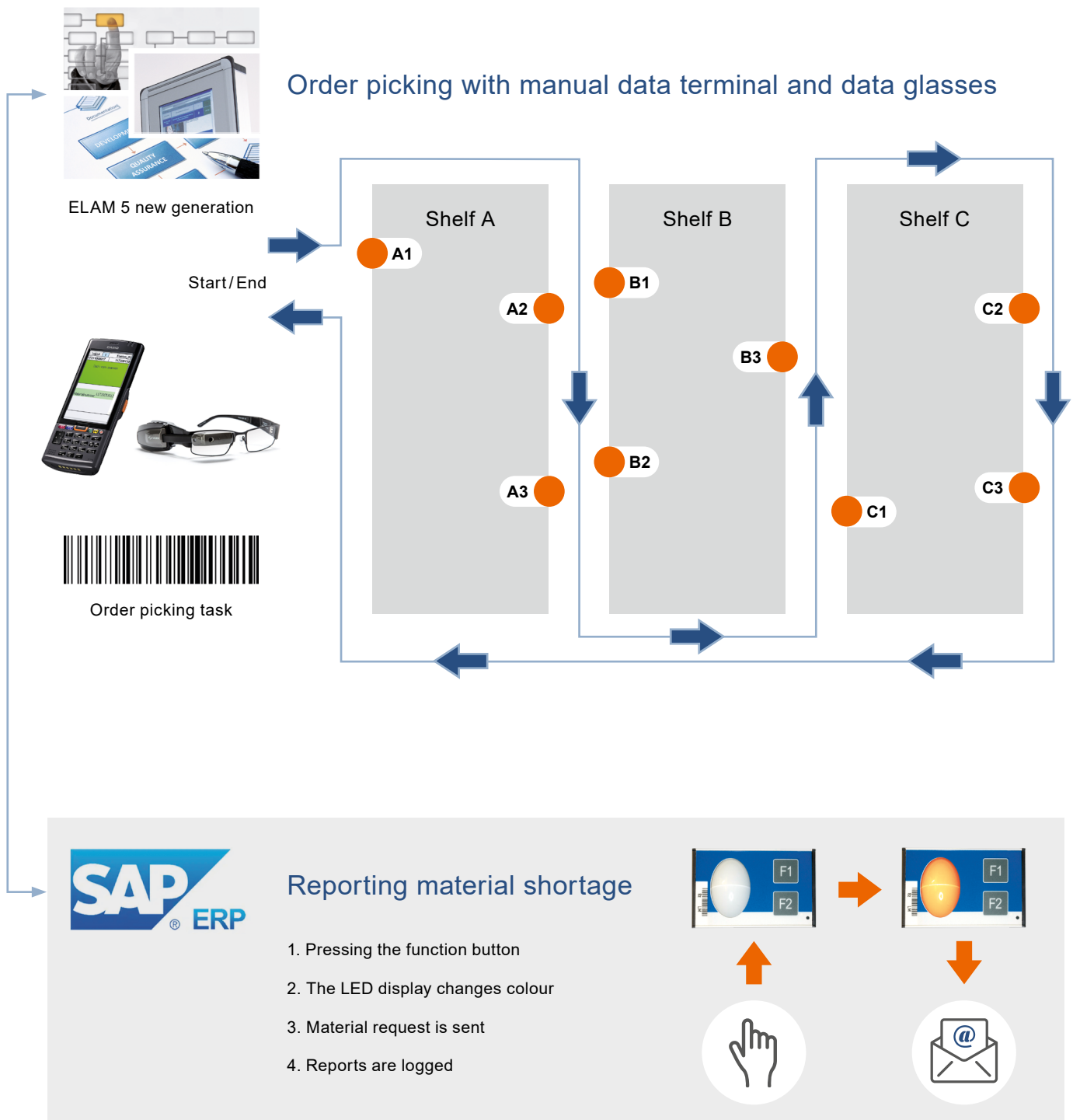
For some customers, we have achieved complete batch tracing and thus made an essential contribution to safety in processing by avoiding batch errors.

The throughput times are shorter and the inventory can be reduced. This cuts costs.

PICKING COMPONENTS

Often the task goes like this: components need to be shipped from a new central freestock warehouse in assortment boxes and their picking carried out rapidly and easily. Here, employees should not have to study long lists or double back over their routes.

ELAM is available on many mobile terminals. If the terminals offer a scanning option, picking and confirmation can be carried out in one step. Here, the software optimises the route through the picking area.





For a notable aircraft manufacturer, we fitted two warehouses of 28 storage racks in total with pick to light, shelf luminaires and assortment boxes.

The system was delivered, set up and launched in full with mechanisms, IT hardware and the ELAM software within three months. This drastically reduced the number of incorrectly picked assortment boxes and costs sank markedly.



PRODUCTION DATA FROM THE ERP

The proper, complete transfer of order data and part lists from the company's ERP systems is an obligatory prerequisite for high-performance production logistics. But what can be done if the data are provided in various different parts systems and there is no central data storage?

ELAM has a solution available for this: the individual data sources are queried and the individual statements automatically combined to form complete data sets in an intelligent intermediate level. These are then ready to be shown on the picking devices.



For an international manufacturer of agricultural machinery, we revolutionised order-related sequencing and introduced a new intermediate data level.

Not until this comprehensive intermediate level had been installed could order picking be properly implemented and exact pick to light based sequencing set up. The time saved was so great that the solution was rolled out across all the German factories.



PORTIONING COMPONENTS, CREATING SETS

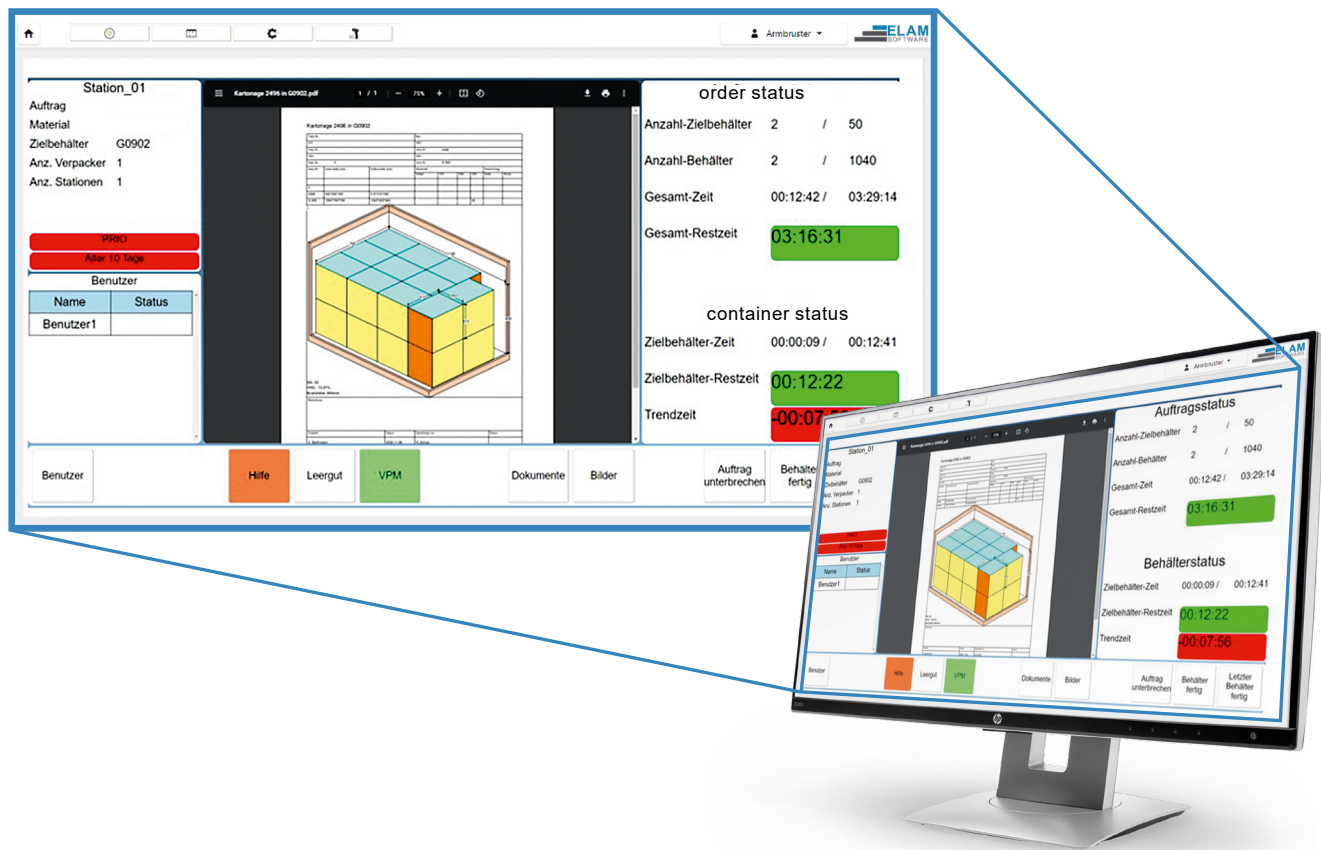
Often, components from a larger container need to be correctly portioned for shipping and provided for further use. To this end, they need to be relocated, repackaged, counted and put in sequence. There is great pressure of time in logistics, where costs need to be minimised - because time is money.

The ELAM system offers solutions for this and automatically forms the required sets, determines the target containers and ensures the proper sequence in the placement of the good baskets. If a particular order is needed at the place of assembly, the ELAM system forms this sequence from the criteria present and displays the transport. The assembly worker thus receives all the required parts within reach at the right time and in the right sequence.



For a large logistics provider, we delivered comprehensive equipment to form packaging units.

Its success was very impressive, leading to delivery deadlines being better kept and massive cost savings.

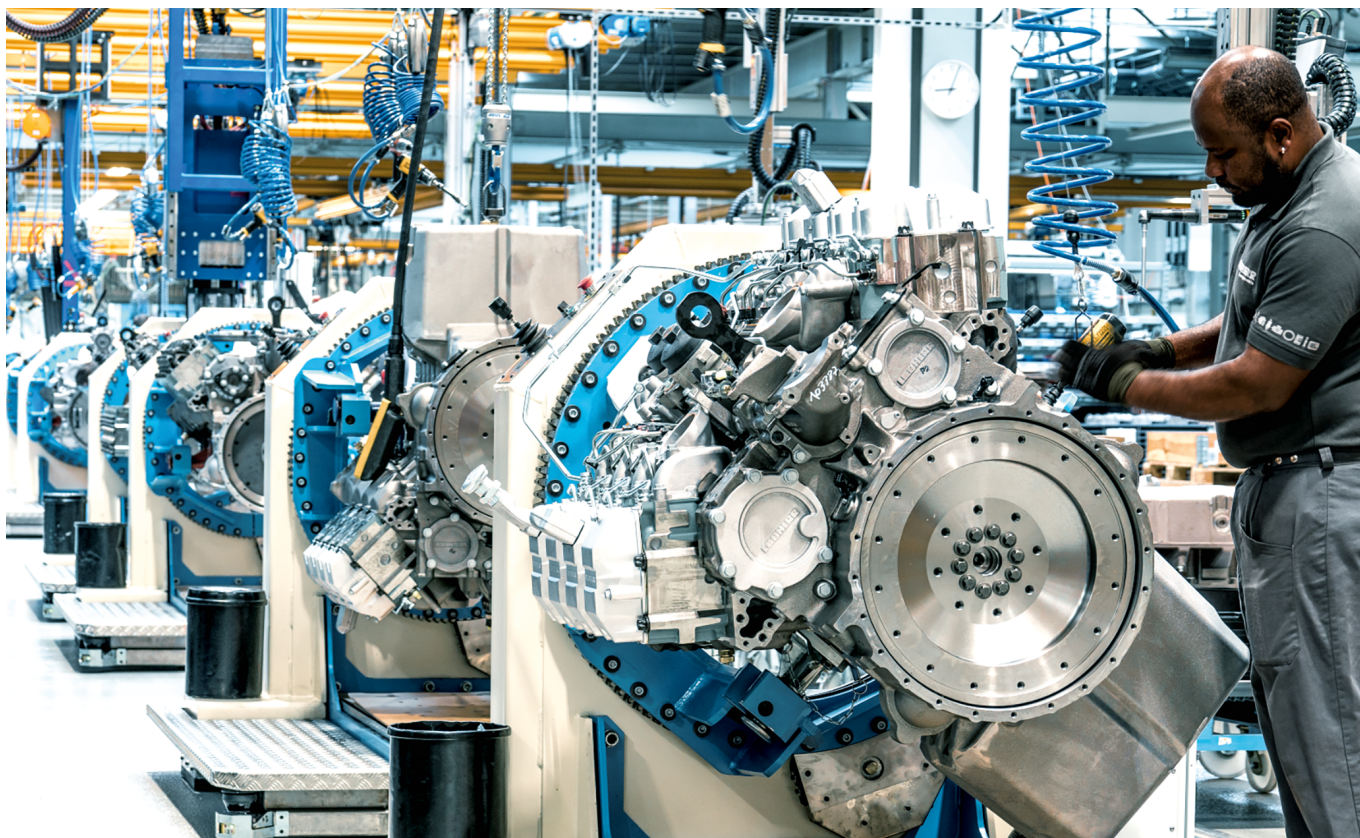


In a central overview, the user is shown of packaging related to the order. On the right-hand-side of the display form, the user is shown the times requirements, the time available per container and the remaining time.

Centrally in the displays, the most current packaging instructions for the material are shown. Using the buttons included, the user can request packaging materials, empty containers and help with packaging an order. These requirements are shown to order pickers on separate display modules.

If individual packaging orders are started at several packaging tables, the target times are automatically distributed by the ELAM system. The same goes if several users report to the ELAM system at one packaging table.

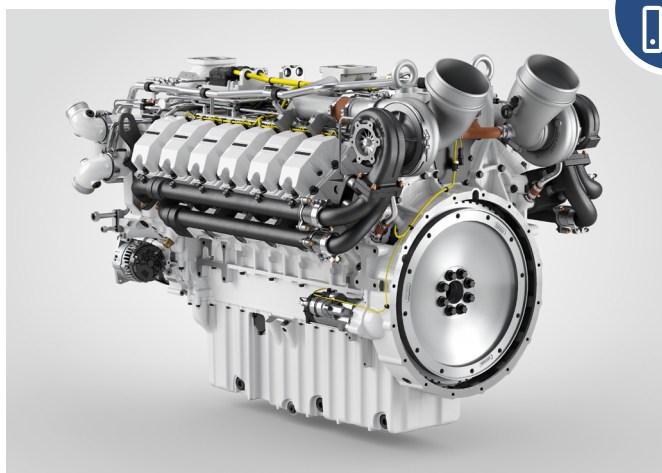
This ensures rapid, secure work processes.



MATERIAL DELIVERY TO THE WORK STATION

The material at large-scale assembly lines is usually systematically delivered by logistics employees in a „milk run“. Nevertheless, it does happen that at some stations, material runs short. What can then be done?

For a plant with an ELAM system, this is not a problem. Because when materials are short and the logistics employee is far away or not at work, ELAM provides a simple solution. At every pick to light position there is a call button with which materials can be requested from the central site. If call reception is well organised, the material required can be brought in good time.



For an international manufacturer of large motors, we implemented ELAM stations with pick to light systems on two motor lines.

If in these large factories materials run short at individual work stations the required material can be called for at once. This avoids expensive interruptions to the assembly sequence and in consequence downtimes.



COMMISSIONING BY ARMBRUSTER ENGINEERING

You can use **ELAM Logistics** as an independent module or in connection with an assembly module.

We will support you in selecting the right product for you and will commission it for you.

PACKAGES & PRICES

ELAM Logistics with ERP connection (ELAM Enterprise)

from **€ 29.000,-**

Package prices net ex works Bremen, not incl. VAT and shipping.

CONTACT

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