

## **Consistently from One Single Source**

**Whether from powerful individual product to complex process-linking, or from series production to batch size 1; HOMAG Automation establishes the best possible material flow for each class, and thus offers the prerequisite for a cost-effective production.**

The five business segments storage technique, automation and robotics, sorting and collating systems, assembly technology as well as packaging technology play an increasing role in all enterprises, regardless of their size. Whether they are oriented to handicraft or industrial production: The challenge is not the quality of products, but rather to use operating machines with optimal capacity by means of intelligent logistical concepts. Coherent material flow concepts are required in the furniture and component industry within the trend towards individualization to decisively optimize the flexibility in production processes. Here, HOMAG Automation enters the game as logistics expert of the HOMAG Group. Its approach: The material has to run dependent on the operating machine's speed instead of operating machines being controlled by the material flow.

## **From Goods Receipt to Processing**

With the production series horizontal storages, HOMAG Automation offers ideal solutions for an optimization of the material flow around saws.

Panels are stored into and removed from the horizontal storage, collated, or transferred to the connected saw quickly, fully automatic and precisely.

Panel saws can easily be integrated via standard interfaces. Furthermore, horizontal storages enable

the junction of different transport systems, through which further operating machines

can be connected or offcuts can be returned to the storage. The storage

decides and organizes the logistics so that operating machines can run optimally. Idle times are avoided due to a continuous material flow. Additionally, the storage software **woodStore** enables fully automatic data management for the material - from new panel to small offcuts. Software modules such as **OffcutPro**, for instance, provide for a capture of all stored offcuts into the system as stock with unambiguous designation to be planned. The storage management offers a well-arranged display for manually stored offcuts to the operator. Material lists can easily be generated, displayed, and printed. The storage responds automatically to the provided kind of processing and feeds the operating machine.

## **Alignment of Cycle Capacity**

From the saw it moves on in direction to sizing and edge banding. Saw and edge banding work with different cycle capacity. The series TLB demonstrates how these can be harmonized. The abbreviation stands for Transport-Lager-Bedieneinheit (transport storage operating unit) and signifies a fully automated high-bay rack that is used as buffer between two operating machines, on the one hand to absorb different cycle capacities, and on the other hand to grant the provision of the sizing and edge banding with a material stream harmonized to their cycle capacity. The capacity of the buffer is already calculated in the project planning according to the panel flow rate and configured suitable to customer's demands. Thus, the logistical premises are generated that are a decisive factor for an optimal utilization ration along with processing as partition, edge banding or drilling.

## **In the Right Order**

The panels are transferred via transport conveyors to the collating station after being processed in the sizing and edge banding where they are collected and sorted before entering the drilling machine. The material is

exactly positioned already when taken out of the transport belt to fill sheds in a space saving way. Arriving panel streams are decoupled, sorted and provided to the next process in ideal order. Different, freely selectable removal strategies adjust the sorting order automatically to customer's demands. So, the user can decide whether the consignments shall be arranged to factors as setting times, assembly order and tour plans or color, shape and material. Additionally, the unambiguous designation of each component allows transparently recallable information to process state and position in the line.

### **Intra Logistics up to Handing over to Dispatch**

A storage can have many functions: as horizontal storage for raw material, as sorting store between two processing steps, as buffer magazine on different production speed. HOMAG's logistical solutions take effect also after assembling finished furniture parts and serve as interface for delivery. So, ready-assembled corpus parts are transferred via transport conveyors to a collating station after final assembly and packaging, there intermediate stored for delivery and sorted order-related for truck loading. Even here, at the end of the production chain, is worked according to freely definable factors, based on the principle of fully automatic sorting, and thus, the effectiveness of the whole line is positive determined. Limits in handling there are only few. Regarding logistical possibilities, furniture designer have almost unlimited design freedom on surfaces or workpiece geometry. So, the matching solution is offered for each demand and combined to that many advantages: Free-form parts, workpieces wrapped in foil, cardboards, doors with or without glazing panel cutouts, door frames, countertops incl. sink and many more can safely be transported, assembled, and packed.

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**Image 1: Storage technique**

Horizontal storages offer much leeway in combination with operating machines and in panel variety. They are the perfect solution for an efficient production.



**Image 2: Automation and Robotics**

Robot applications, return units, handling and transport systems complement core machines and complete them up to unmanned cells.



**Image 3: Sorting and Collating Systems**

Sorting and collating lines equalize part streams, order them as necessary and adapt them flexibly to the current production process.



**Image 4: Assembly technology**

Solutions for a need-based final assembly are generated from the simple corpus press to customized assembly lines.



**Image 5: Packaging technology**

Cost-conscious concepts for packaging up to batch size 1. Each cardboard box a custom-made suit with best product protection, easy and fast produced.

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