woodBase stack management
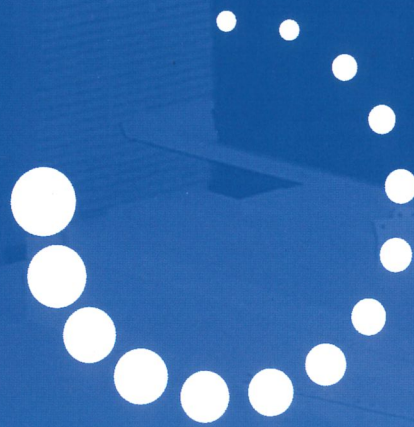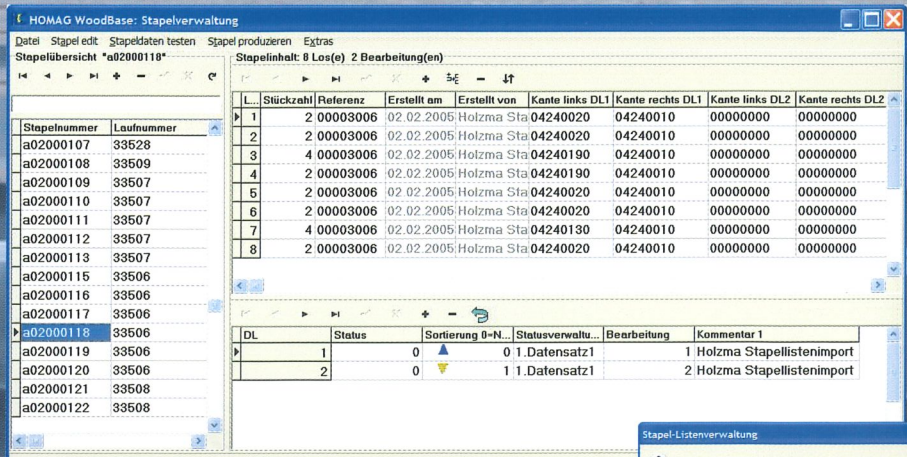# Economical, clearly manageable production

lifeline | service

wood**Base** stack management -
faster, more reliable, more productive

The requirements

When it comes to the efficient production of customer-specific jobs in small batch sizes on highly flexible plants, organization of the machine periphery becomes a highly decisive factor.

Handling systems for stacks of workpieces can be automated by the provision of stack characteristics and stack content-related data.
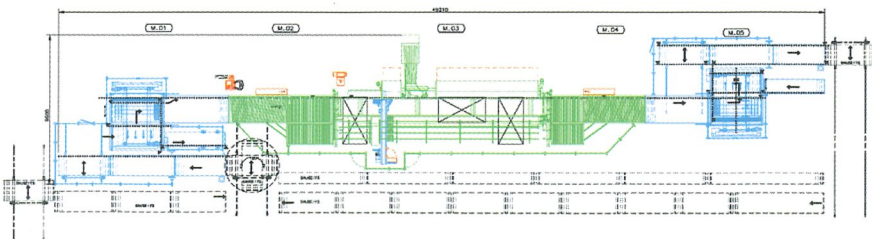
The solution

Developed specifically to address the requirements of the furniture industry, the wood**Base** stack management system paves the way for a significant increase in productivity. Foreseeable interruptions due to missing information or data are detected early on. Workpieces which are not individually labelled can be reliably monitored over multiple processing stages, even across several different plants.

The software

Even using the basic version of the wood**Base** stack management system, stacks can be quickly and reliably entered on-screen at the machine control system. The stack contents are clearly displayed in table form. Every stack automatically indicates its current status. Manual changes to stack contents, for example piece numbers or sequence in the stack can be additionally and simply implemented from any wood**Base** workstation. With the look and feel of Windows, wood**Base** applications require minimal familiarization time and offer outstanding user convenience.

Editing functions available include block-by-block copying, deletion and displacement within a stack, and also between different stacks. The automatic execution of cyclical work processes such as deletion of old stack data reduces the day-to-day workload of operating staff. Stacks are selected for production directly at the stack contents list, with filtration functions permitting fast access to the required stack.

Integrated test routines reliably check the availability of all the information required for correct processing operations. This helps increase operating reliability and reduces standstill periods.

The stack construction plan

Stacks which have once been registered are continuously updated online by feedback from the production line control system wood**Line**. Information gained in this way about production progress of a stack and consequently about workpieces contained in the stack is available for use at any time. Depending on requirements, this information is made available either in electronic form with optimum network transparency, or as an automatically generated stack accompanying ticket. The wood**Base** stack management system automatically generates a precise stack construction plan for the subsequent production processes. This provides an inestimable benefit, particularly when working with small batch sizes.

Options

Calculation of parameters
If required, individual stack parameters can be automatically calculated. This function allows parameters such as stack height, max. length and width in the stack, last batch in the stack etc. to be automatically determined by evaluation of all the characteristics assigned to a stack.

Additional interfaces
Open-ended interfaces permit the automatic adoption of stack data, allowing the information flow to be fully automated.

BARGSTEDT wood**Store** / wood**Sort**
HOMAG wood**Line**
HOLZMA Cutmatic
SCHULER MOS
External production management systems
ERP/PPS

Barcode stack identification
An optional barcode-based stack identification function is additionally available. This allows the entire stack contents to be automatically adopted in the wood**Line** production list, and prevents interruptions due to input errors.

Mobile stack registration
The optional use of mobile radio terminals with integrated intelligence permits manual bar code-aided registration of a workpiece stack wherever the automatic adoption of data is not possible.

Functions of the radio terminal:
- Creating new stack list
- Attaching additional stack items
- Activates printouts of stack lists
- Entry of stacks in the wood**Line** production list
- Display of workpiece part and edging information from wood**Base**

Upgrades for PC in the production engineering department
System requirements:
- Windows operating system 2000 or XP
- Screen resolution at least 1024 x 768
- Network connection to the plant with wood**Line**
- wood**Base** reference number management

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