



## **FLEXISTACK**

AUTOMATIC SCANNING, SORTING AND  
STACKING WITH VACUUM ROBOTS

# FLEXISTACK IN THE SAWMILL

## AUTOMATIC STACKING OF EDGED OR UNEDGED SAWN TIMBER

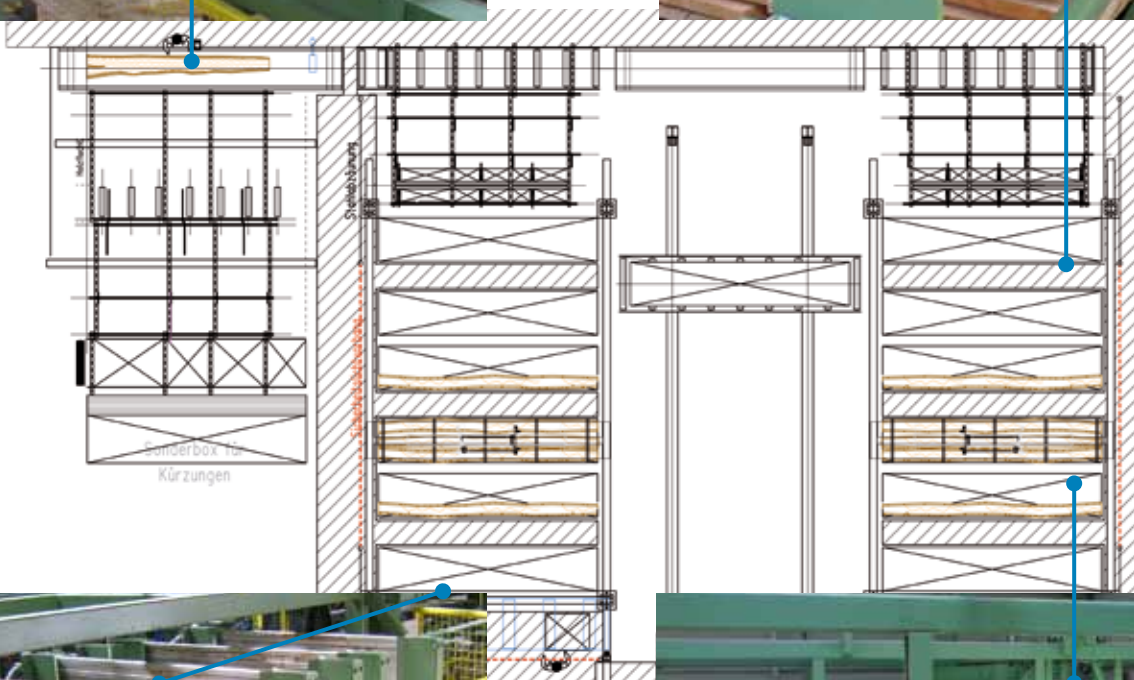
*FLEXISTACK* is predestinated for the gentle stacking of unedged quality sawn timber.

1. Integrated board scanning and logging: each board is measured by lasers from both sides. Deduction of length and width may be added optionally
2. The vacuum robot brings every board to the desired stacking place and aligns it
3. Each layer is optimized: board width and board distances are respected
4. The drive-along magazine automatically places stacking laths
5. Completed packs are discharged by a roller conveyor

Laser scanning and evaluation



Automatic layer formation with suction robot



Automatic placement of stickers



Stacking according to qualities and dimensions

# FLEXISTACK IN THE SECONDARY PROCESSING

## AUTOMATIC DESTACKING AND STACKING OF QUALITY SAWN TIMBER TO OBTAIN A PACK READY FOR DISPATCH



From the stack after drying ....



Destacking of packs and removal of stickers

**Time-consuming measuring and restacking comes to an end: stack up to 7 boards per minute automatically with only one operator!**

The intelligent control system calculates the optimum board combination and selects the matching boards out of an intermediate buffer. Conical boards are turned if necessary.

The layers are being destacked and the stickers automatically removed and collected.

After the laser scanner, each board is being assigned to the right stack.

### The result:

Very tightly stacked and interlocked packs: transport-safe, properly aligned, with measurement protocol



....to the pack ready for shipment



Automatic stacking



Scanning and evaluation



Optimization of layers for tight packs



Board selection out of an intermediate buffer with a vacuum robot

# FLEXISTACK FOR CONSTRUCTION AND CARPENTRY TIMBER

## AUTOMATIC STACKING OF INDIVIDUAL CUSTOMERS' ORDERS

### In the past: manual



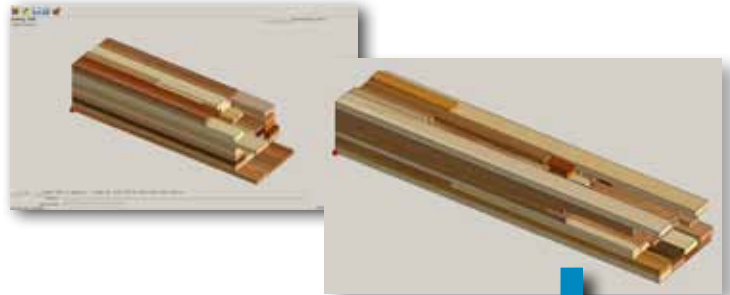
### Stacks ready for dispatch



### Today: automated

- individual according to customers' wishes
- ready in the right assembly order
- packages ready for dispatch
- up to 9 stacks at once

### Simulation & stacking optimisation



### Stacking with vacuum robot



GEFÖRDERT VOM



Bundesministerium  
für Bildung  
und Forschung



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