

# MATERIAL HANDLING FOR THE BOARD INDUSTRY



**SYSTRAPLAN**   
Individuelle Materialfluß- und Lagertechnik

*Know-how makes goods move*

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## Pushing system for feeding

Pushing elements are installed on an evacuation arm. Depending on the material vacuum cups and parallelogram pushers are combined.

Through additional, optional auxiliary elements, such as air nozzles and board separating aids, thin boards can be separated.

A special separating device prevents the boards from getting pulled by friction work.

An intermediate rake ensures a continuous feeding.



## Stacking box

The stacking box consists of a crossbar lifting platform, operated by a hydraulic device, a transfer belt conveyor on top, a heavy electrically driven duty roller conveyor, an infeed mangle and a board alignment device.

The boards move over an electrically driven infeed mangle with pneumatically controlled top pressing wheels.

When reaching their position, the boards are aligned pneumatically by cylinders.

The lifting platform moves down after each board in accordance to the thickness of the board. The stack will be discharged over the conveyor. When reaching the pre-assigned stacking height the stack is moved out by the roller conveyor.

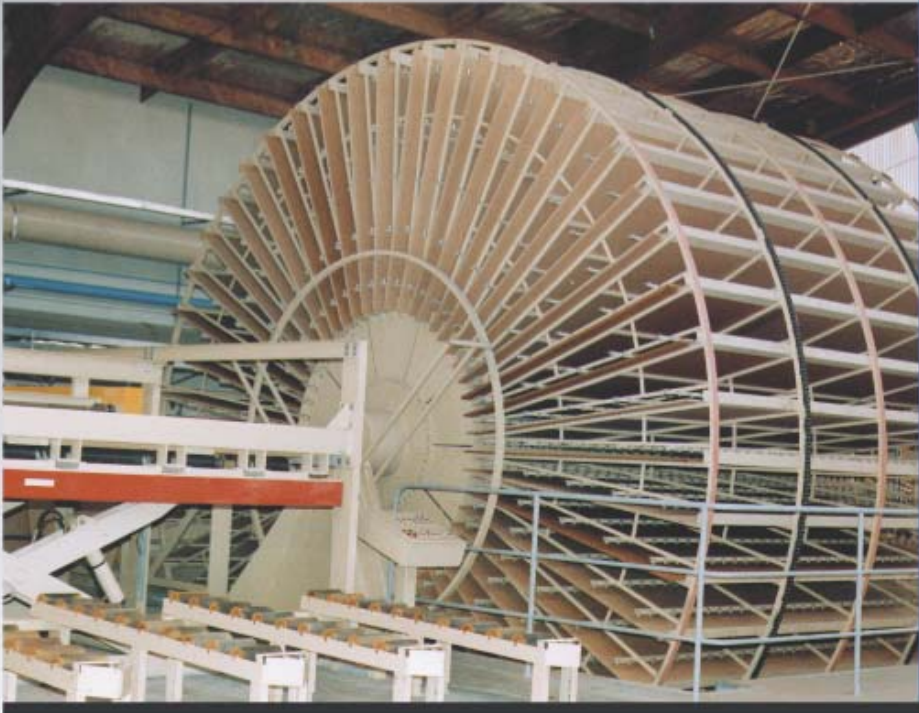
By manual adjustment of the guides and stops the size of the boards can be changed. The required stacking height is also freely adjustable.

A transferring belt conveyor, which enables a direct transport into further stacking boxes, guarantees a continuous operating.

## SYSTRAPLAN – Material handling for the board industry

- Cooling turner, board turner
- Feeding devices, stacking boxes
- Feeding systems for multi story systems
- Stacking boxes behind saws
- Roller conveyor, chain conveyor
- Cross transfers
- Transfer shuttles
- Gantries with and without turning device and/or swivel device





### Cooling turner

The cooling turner, which is equipped with pockets, takes boards from an infeed roller conveyor and revolves after every working operation.

The time needed to air-condition each board, based on the speed of the system, determines the number of active pockets.

The size of the turner results from the dimensions of the boards to be handled.

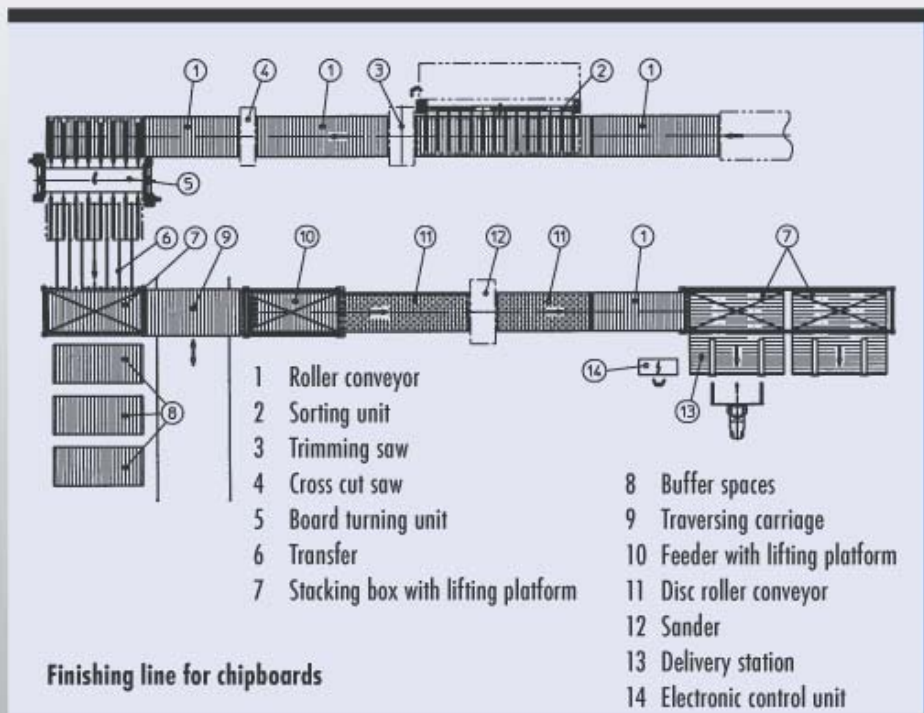
An ingenious, constructive design makes an inexpensive manufacturing possible.

### SYSTRAPLAN – Supplementary components

- Trimming saws
- Middle cut saws
- Cross cut saws
- Gantry saws
- Storage systems
- Edge cleaning

### Fully automatic charging and discharging devices for presses

- Multi storey systems for discontinuous presses for the manufacture of panels.
- Single and multi storey systems including material cycling for discontinuous presses for the manufacture of sandwich insulation panels for refrigeration and industrial buildings.
- Complete finishing and reworking lines downstream of continuous presses for the production of insulation panels for refrigeration and industrial buildings.



Finishing line for chipboards

### Customized automation and integration

The present automated manufacturing of panels requires well-proven solutions for a simple and safe material flow with a minimum of maintenance requirements.

From projects to the realisation of complete systems.

- Finishing stations
- Sanding lines
- Saws, cut to size saws

## Feeding- and Stacking devices

Feeding and stacking devices can be individually and flexibly utilized by application of a variety of load carrying and guiding systems.

To assure precise vertical motion we use column and scissor systems.

Load carrying devices or pick-up heads are specifically designed for the intended product. Vacuum, mechanical clamping and magnetic heads are mainly used.

Auxiliary equipment can be integrated, for example:

- Transfer and flipping devices for boards and stacks.
- Palette storage devices for Euro and special pallets.
- Separating and feeding devices for hard interleaving layers.
- Film feeding devices and packaging stations.
- Finishing and reworking stations.

Systraplans' know-how and competence have established the reputation of being a specialist among the panel industry in Germany, Europe and elsewhere, when it comes to following fields:

- Acoustic panels
- Insulation panels
- Cement and mineral fibreboards
- Gypsum cardboards and gypsum fibreboards (dry-wall panels)
- Wall, ceiling and floor boards
- Sandwich elements, foamed PU, etc.

As a competitive and flexible company we are swiftly responding to specific customer demands.



For further information: [www.systraplan.de](http://www.systraplan.de)

We also serve following industries:

- Wood based board industry
- Rubber processing industry
- Building board industry
- Plastic board industry
- Sheet metal processing industry
- Flat glass industry

