# MiCROTEC

# Variosort

Scanning, Sorting & Packaging
The control suite for all lumber processes

Variosort sorting criteria
- × **Geometry – length, width, and thickness**
- × **Quality / resale value**
- × **Strength classes**
- × **Moisture content**
- × **Warp**

# 100% sorting overview

Variosort Control Suite supervises the fully automated sorting and packaging, bundling, and wrapping of lumber. It works with all mechanical systems such as horizontal and vertical sorters, green or dry buffers, etc. Variosort Control Suite also manages trimming.

This application relies on measurement data of the Goldeneye Multi-Sensor Quality Scanner, Wanescan Secondary Breakdown Optimizer, Viscan Strength Grader, M3 Scan Moisture Meter, Optiside Cup Scanner, Variosort Boardscan or other proprietary lumber scanners and integrates with existing software.

× Controls sorting and packaging at high speeds
× Operates with all conventional mechanical systems
× Allows quick and efficient sort changes
× Optimizes use of boxes through dynamic allocation
× Controls trimming, bundling, and packaging
× Visualizes ongoing operations status and shows outages
× Reduces wear with intelligent box feeder valve control

## Variosort Boardscan
**Thickness, width, and length basic measurement for optimization**

× Variosort Boardscan measurement system returns thickness, width, and length of boards
× Lumber data is scanned using infrared scanners, distance sensors, laser 3D triangulation and Multi-Sensor cameras
× Adaptable systems for every quality and accuracy requirements
× Flexible adaptation to all external interfaces

Variosort Boardscan seamlessly integrates into existing plants and can be customized to meet different quality and accuracy requirements.

## Variosort Sorter

Variosort Sorter automatically sorts lumber according to its geometry, quality, strength, and moisture. All measurements are stored and allocated to a sort sequence. Variosort Sorter designates a free box in the plant and fills it until it is ready for packaging. Selection criteria are stored and can be recalled at any time, ensuring quicker and smoother sort changes. Chopping, ripping and trimming processes are also controlled automatically.

## Variosort Packaging

Variosort Packaging manages all processes at the packaging stage. The sorted lumber is emptied from the box and packages are packed. It is also possible to print customized packet labels as part of this process.

## Variosort Work Preparation

Variosort Work Preparation prepares lumber selection in production for subsequent processing. Depending on actual orders, the software supplies the required lumber selection and related lumber information so that production can proceed immediately without interruption.
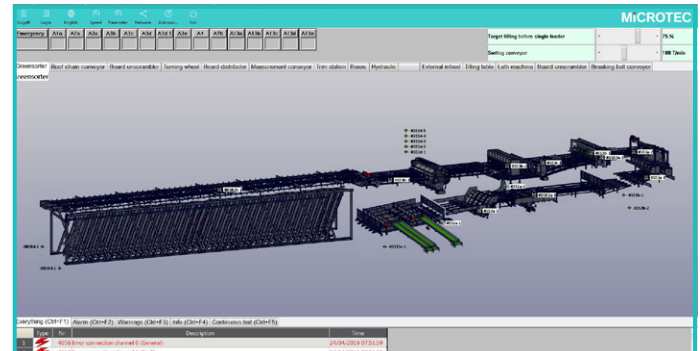
## Variosort Package Outfeed

Variosort Package Outfeed feeds the processing unit with package destination and downstream processing information and visualizes package position on the outfeed. Package data and destination can be optimized in real time potentially modifying the course of the package on the outfeed.
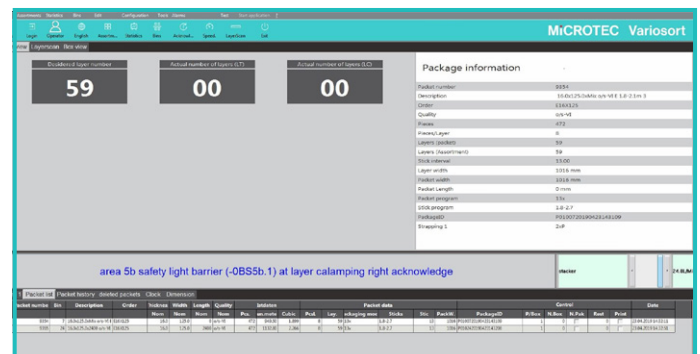
## Variosort Infeed

Variosort Infeed manages and directs the lumber infeed of a planer mill. The software manages lumber according to both its remaining moisture content after dry kiln and its shape, taking into account bow, cup, spring and twist so that only suitable lumber is planed. Variosort Infeed controls lumber turners in the planer line for optimum feeding and constant high speed.
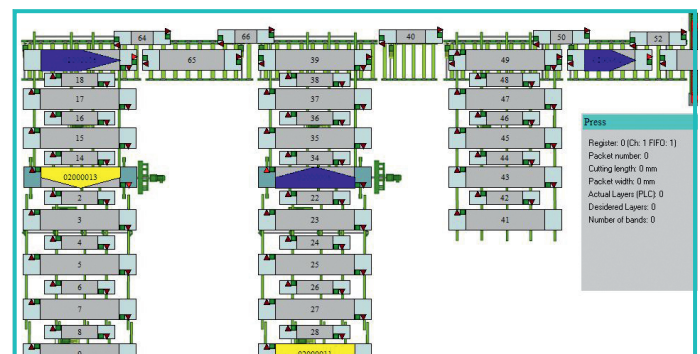
## Variosort Visualization

Variosort Visualization Supervisory Control And Data Acquisition visualizes the entire plant and shows current operations. Possible faults are immediately analyzed by the system, which facilitates maintenance and shortens outages. In addition, the speeds of the lumber handling systems can be adjusted and optimized. Speed profiles are stored and remain available for each lumber dimension.
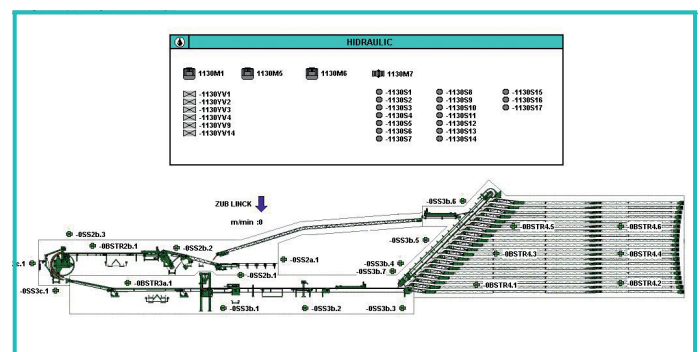

Variosort Sorter


Variosort Packaging


Variosort Package Outfeed


Variosort Visualization

# MiCROTEC

# World leading wood scanning solutions

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