

Variosort

Scanning, Sorting & Packaging
Control suite for all lumber processes



Variosort sorting criteria

- × Geometry – length, width and thickness
- × Quality
- × Strength classes
- × Moisture content

100% sorting overview

Variosort Lumber Sorter 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 Lumber Sorter also manages trimming.

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

- × Controls sorting and packaging at high speeds
- × Operates with all common 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

«Today's wood processing plants need accurate measurement and optimized sorting. Variosort Lumber Sorter offers an all-encompassing control suite for your lumber processing, that guarantees an optimal use of your sorting line.»

Dott. Ing. Federico Giudiceandrea
Microtec CEO



Variosort Lumber Sorter + Basic lumber scanning module

Variosort Lumber Scanner

Thickness, width and length
Basic measurement for optimization

- × Variosort Lumber Scanner measurement systems calculate 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

The Variosort Lumber Scanner 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 automatically bundled and packed. It is also possible to print customized packet labels as part of this process.

Variosort Work Preparation

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

Variosort Package Outfeed

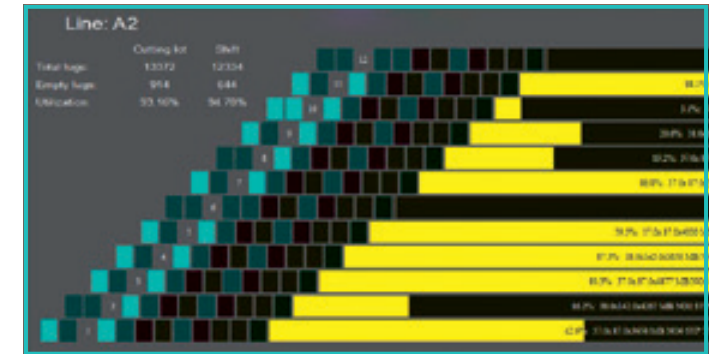
Variosort Package Outfeed feeds the processing unit with package destination and downstream processing information and visualizes the package position on the outfeed. Package data and destination can be optimized in real time potentially modifying the course of the package on the outfeed.

Variosort Infeed

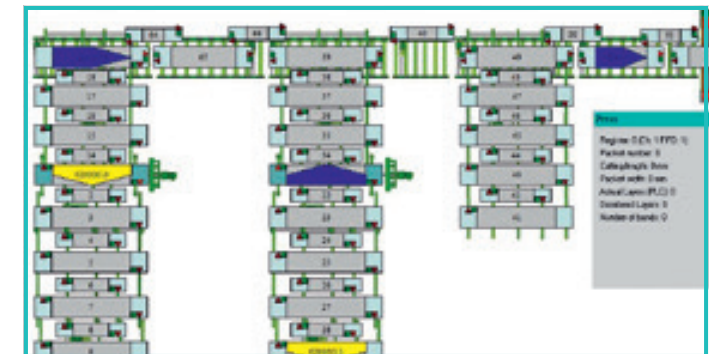
Variosort Infeed manages and directs the lumber infeed of a planer mill. The software sorts lumber according to both its remaining moisture content after dry kiln and its shape, taking into account bow, cup, spring and twist so that only suitable lumber is planed. Variosort Infeed directs lumber turners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

Variosort Visualization

Variosort Visualization SCADA 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.



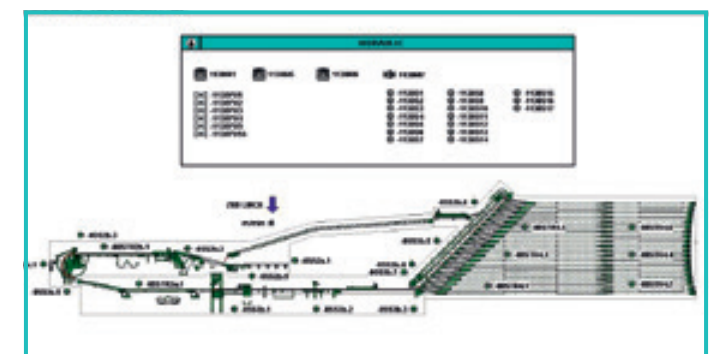
Variosort Sorter



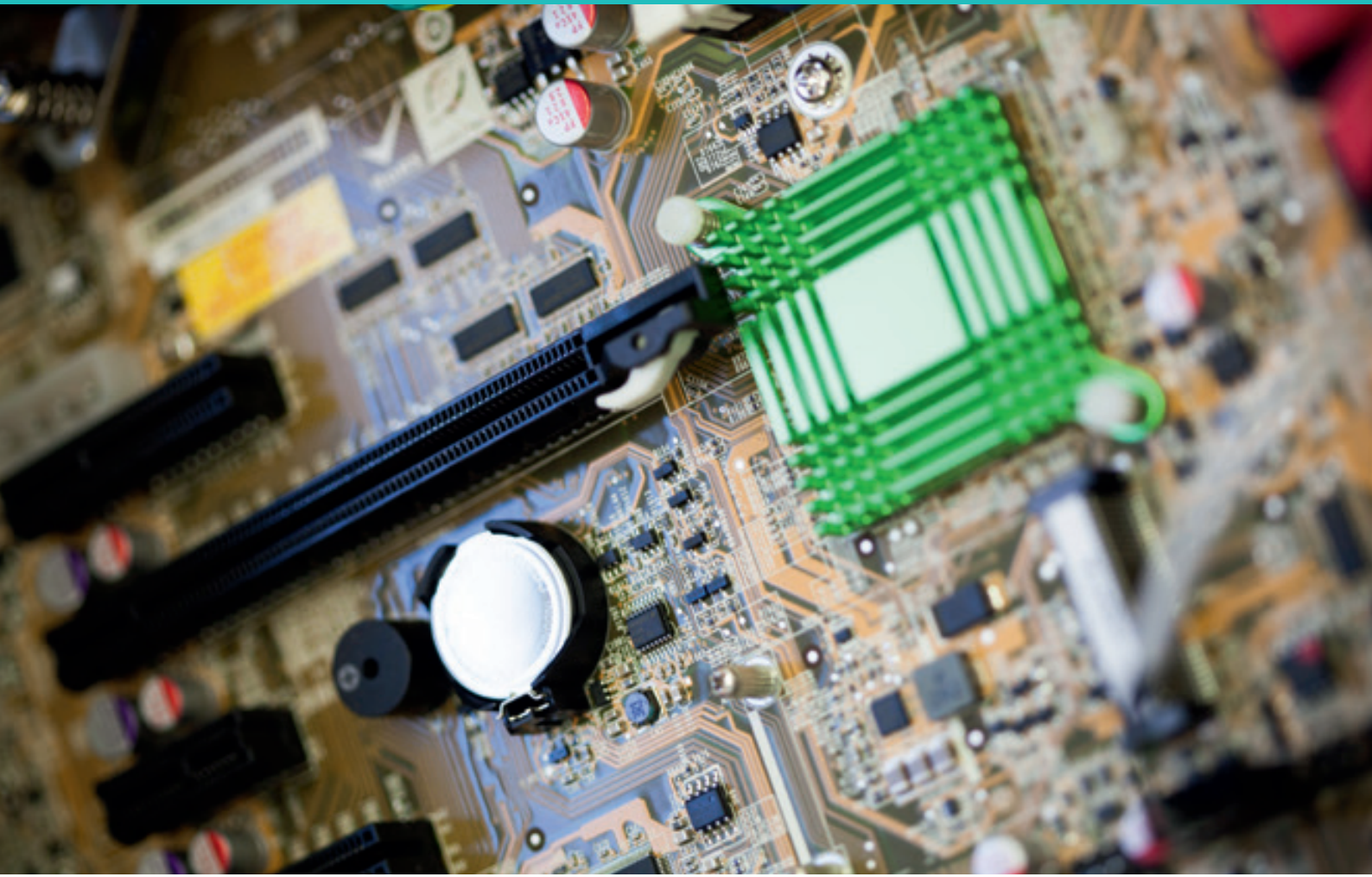
Variosort Package Outfeed



Variosort Infeed



Variosort Visualization



World leading wood scanning solutions

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