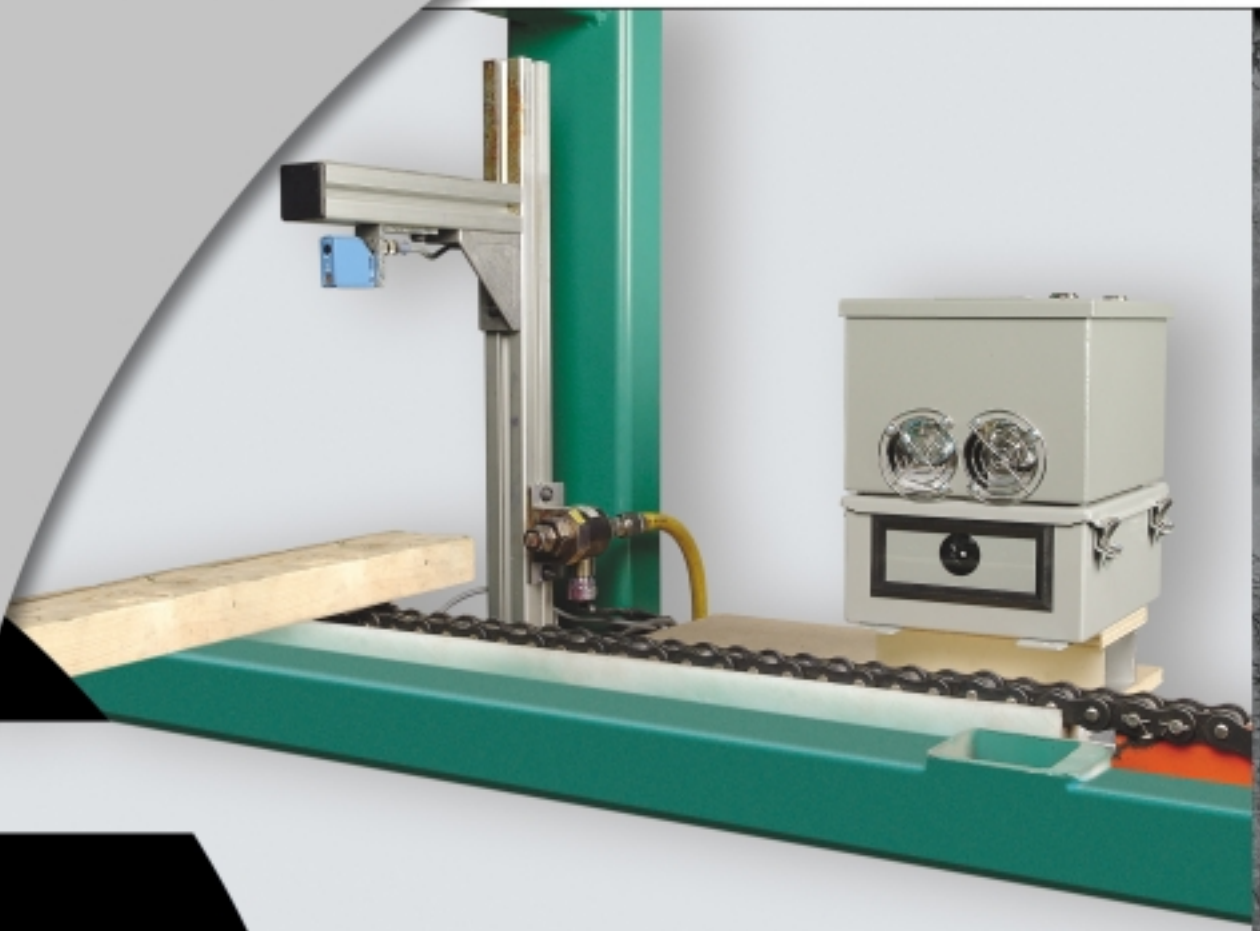
AUTOLOG®
Sawmill Automation

Spruce and Fir Drying Optimizer



Our Technology

- The Drying Optimizer provides a completely-automatic method of sorting spruce and fir lumber which takes into account both the species and the moisture content of the lumber. The overall results mean more-uniform packages in terms of drying characteristic. Therefore, kilns will be easier to operate, and moisture content after drying will be more uniform.

  The Drying Optimizer utilizes an alcohol-based chemical reagent that is sprayed on the end of the lumber. A vision system analyzes the color of the chemical reaction to determine whether the piece of lumber belongs to the group requiring longer drying time or the group requiring shorter drying time.

Spruce and Fir Drying Optimizer

Specifications

RESULT

- The result is sent to the sorter which sorts lumber according to criteria tailored to the mill.
- The system is installed after the trimmer and communicates with the sorter controller. It is then possible to sort the spruce and fir lumber automatically prior to the critical drying operation.

ADVANTAGES

- More uniform sorting
- Reduction in lumber downgrading
- Kilns are easier to operate (drying time and moisture content after drying more uniform)
- Simple to operate

Pumping Unit

TECHNICAL SPECIFICATIONS

POSITION:

- At the sawmill, between the trimmer and the sorter

CHEMICAL REAGENT:

- SAPTEK® -100
- SAPTEK® -200

DETECTION SYSTEM:

- Non-contact
- Fiber-optic vision system linked to a microprocessor

PERFORMANCE:

- Drying sorting accuracy above 96 %

OPERATING TEMPERATURE:

- Minimum of 30° C

SPACE REQUIRED:

- Equivalent of 1 second of travel time (e.g. for a linear speed of 55 inches/sec, 55 inches would be required).

Operator Console

After-sale service 24 hours/day, 7 days/week.

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AUTOLOG®

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