MillIntelligence™ Edger SawSight

Edger SawSight automates size control at the edger.

Solid Wood Products

Sawmill Systems
Dry Kilns
Planermill Systems

Optimization, Process Control

Information Systems
Scanning & Optimization
Machine Controls

Veneer/Panel Products

Lathe Systems
Veneer Dryers
Panel Systems
Press Systems

Biomass & Residuals

Bark/Chip Systems
Energy Systems

Edger SawSight corrects saw positioning errors to keep pieces on-size and cut according to the optimizer's solution.

How it works

During production, laser sensors collect detailed measurements of the size and shape of every board after cutting.

Edger SawSight compares these measurements with the optimizer's solution to identify target board width versus actual cut width.

Edger SawSight analyzes error trends for each device. When enough pieces have been processed using a given saw, Edger SawSight calculates how to bias the device to minimize the cutting errors.

Bias adjustments are sent to the PLC automatically or on approval by QC staff.

Keeping you informed

For each saw, Edger SawSight's carefully designed user interface shows you key pieces of information to help you understand what's happening at your edger, including:

- Current error trends (error distribution graphs, average error and standard deviation, and sample count)
- Currently applied positive or negative PLC bias
- Recommended bias adjustment, if any
- History of bias adjustments

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Benefits and features

- Less off-size lumber produced at the edger, resulting in higher recovery and value.
- Faster feedback when products are out-of-spec. Edger SawSight identifies problems almost as soon as they begin to happen, instead of QC staff discovering off-size products downstream.
- Reduced target sizes. Smaller saw variation allowances permit target size reductions. This may allow for a higher-value board, or an additional board, to be cut from a flitch.
- Increased safety for QC staff. Less need to physically collect pieces reduces the risk of accidents and injuries.
- Higher-value analytical QC work. QC staff can perform higher-value analytical work instead of spending time collecting and measuring pieces by hand.
- Full integration with USNR optimizers. Complete solution information is available for comparison and adjustments – something third-party measurement systems can't do. Edger SawSight is available on systems with USNR optimization and ControlLogix®, Siemens (S7), or Modbus (TCP) PLCs.
- USNR's new web-based user interface for a modern, consistent, and predictable user experience.
- MillIntelligence™ reporting and analysis features to help mills track short-term and long-term accuracy trends to help in troubleshooting and pinpointing preventive maintenance issues.
- Alarm Center alerts QC staff to important problems, such as excessive size errors. Alarms can optionally be sent to the PLC.

Edger SawSight	Manual QC procedures
Takes thousands of precise measurements on every piece, collecting its full 3D size and shape.	Can only take a few measurements at widely-spaced locations on a piece. Can measure only a handful of pieces each shift.
Calculates the off-size errors for pieces as they're cut and displays the detailed results in the user interface.	Longer error calculation time, basing calculations on only a few measurements per piece.
Evaluates the errors calculated for recent pieces and then, at regular intervals, determines PLC bias adjustments that will minimize error.	Significantly longer bias calculation times that are much less precise.
Continuously updates its bias recommendations as more pieces are measured, keeping the adjustments in sync with the current state of the edger.	Corrections based on an outdated state of the edger (whenever QC staff began to collect pieces for evaluation).
Alarms immediately when saw deviation is excessive, or error on a piece is too large.	Saw deviation and piece size problems are discovered much later, when reman increases at the trimmer.

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