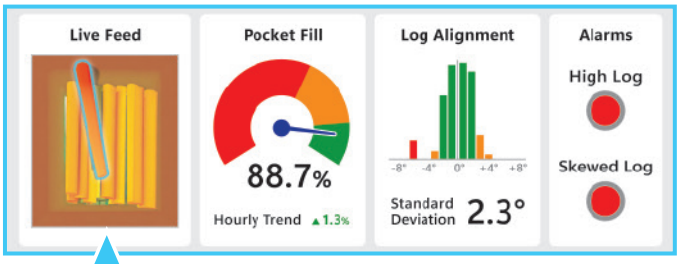
Optimize Your Strander in Real-Time with Argus Vision Systems

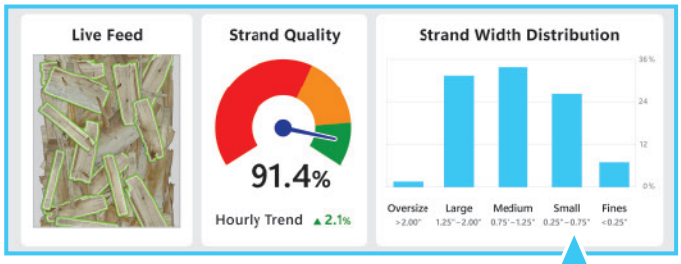
As part of Kadant Carmanah's commitment to continuous improvement, our line of ***Argus Vision Systems*** provides wood room operators and management with access to the real-time data they need to produce better quality strands and improve strander productivity.

Argus Log Fill Optimizer (LFO)

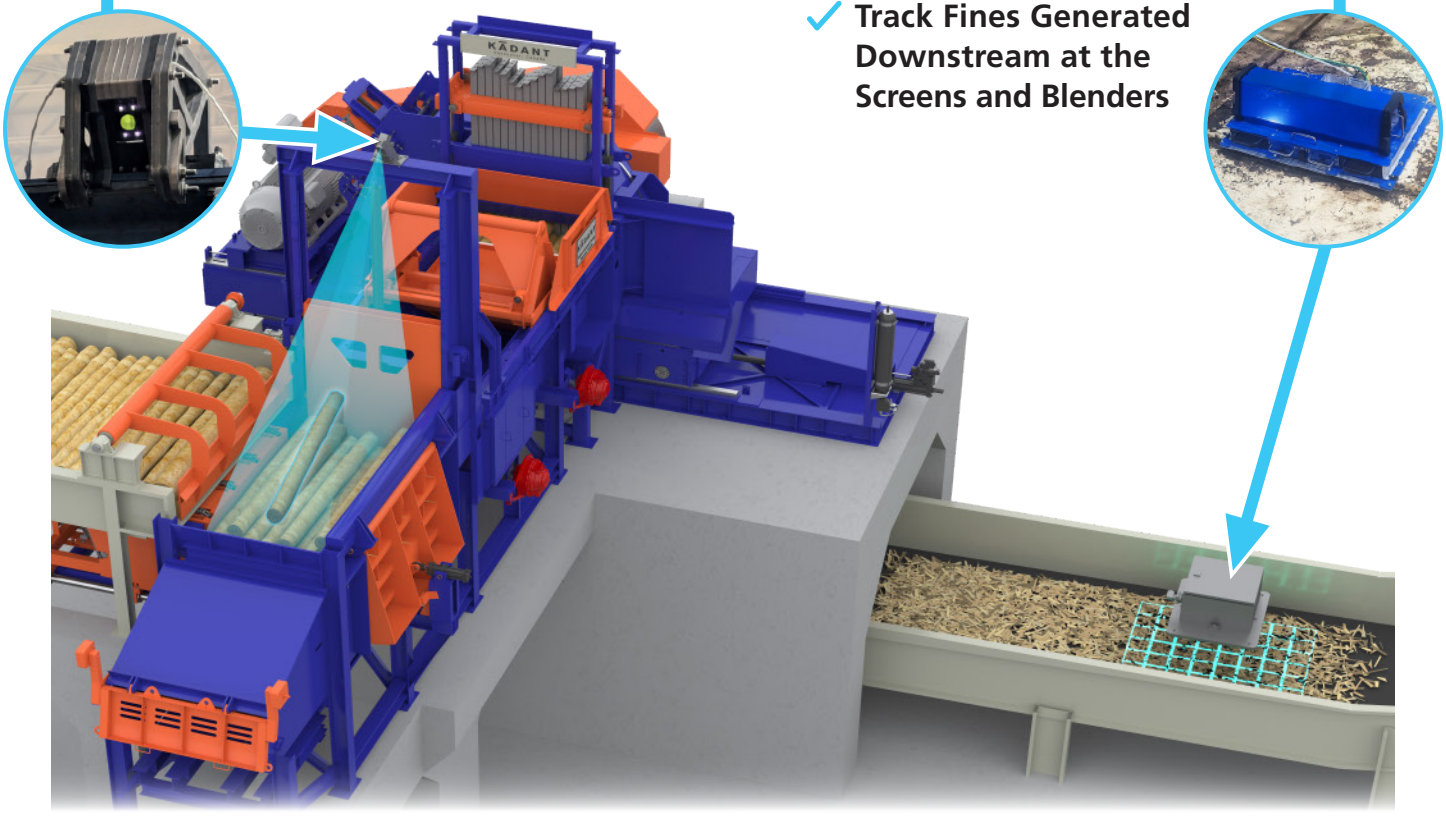


- ✓ Log Fill Height Tracking
- ✓ Log Alignment Measurement
- ✓ Log Volume Throughput

Argus Strand IQ

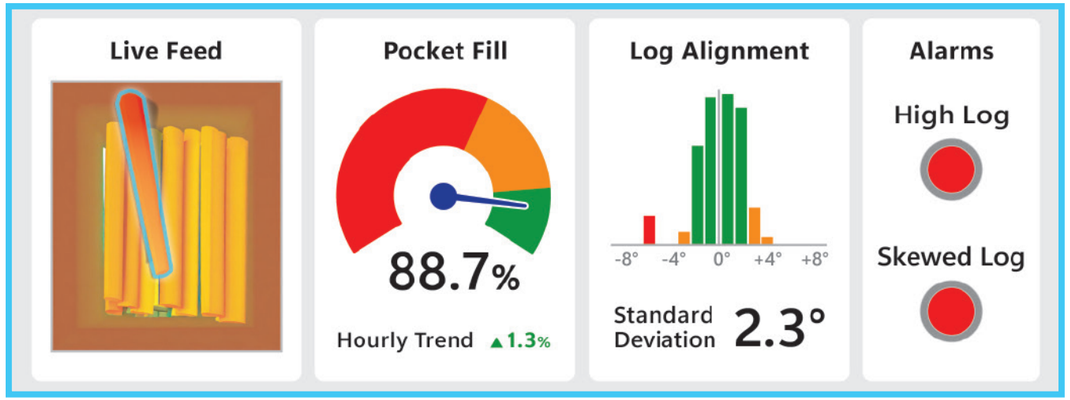


- ✓ Strand Quality Classification
- ✓ Strand Width Distribution
- ✓ Strand Length Distribution
- ✓ Track Fines Generated Downstream at the Screens and Blenders

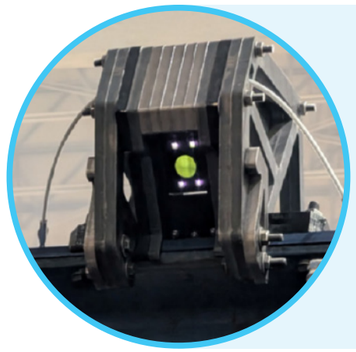


DISCLAIMER: *All user interfaces presented – including dashboards, visualizations, and imagery – are for reference only and are subject to change without notice.*

SYSTEM 1: Argus Log Fill Optimizer (LFO)



Examples of HMI data streams mills can add to their visualization engines.



Argus Log Fill Optimizer (LFO) is a vision system that scans the log fill level and alignment at the strander infeed, measuring the volume and positioning of logs the strander consumes in real-time. With this insight, you can now optimize your infeed conditions for higher fill rates, increased throughput, improved log alignment, and enhanced operational efficiency.

Effects of Log Alignment on Strand Quality

Proper log alignment, which refers to how parallel the log's axis is to the cutting plane of the strander, is a critical factor influencing strand quality. Misaligned, angled, or skewed logs generate more fines and weaker strands which are more prone to breakage in the machine centers downstream from the strander. Conversely, properly aligned logs engage the strander knives uniformly with clean cuts for consistent strand geometry and minimal fines generated. This yields higher fiber recovery rates with improved strand quality and integrity, resulting in improved panel properties.

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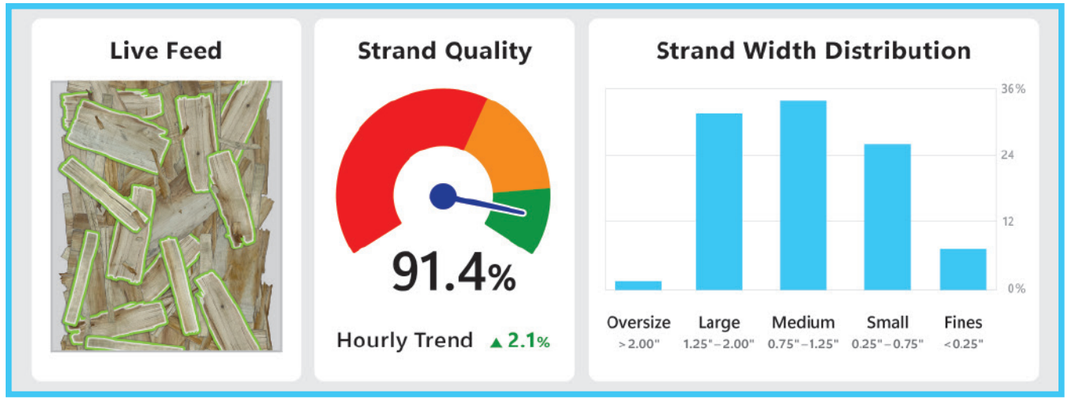
SYSTEM 2: Argus Strand IQ



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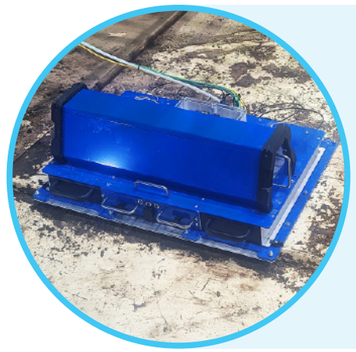

Argus Strand IQ is a vision system that delivers continuous, real-time measurement and segmentation of your strands at critical points of the OSB panel-making process. By assessing strand quality in real-time, this removes the variability and bias associated with inconsistent and infrequent strand collection procedures currently done by hand. With access to accurate strand quality data, you can now make more informed process improvement decisions in real-time.

Track Your Strand Quality at Your Screens and Blenders

Our ***Argus Strand IQ*** systems can help you understand your strand quality as it progresses through your downstream manufacturing processes, and can be installed at all critical machine centers from the outfeed of the strander to the formingline prior to the press. Specifically, we recommend installing ***Argus Strand IQ*** units after your green and/or dry screens to evaluate screening efficiency for strand classification and fines removal, as well as before each of the blenders to evaluate the strand quality prior to applying resin and wax. The goal is to help you achieve a better understanding of your strand quality to assist with optimizing your panel recipes, including minimizing the amount of resin and wax that you can be applying.

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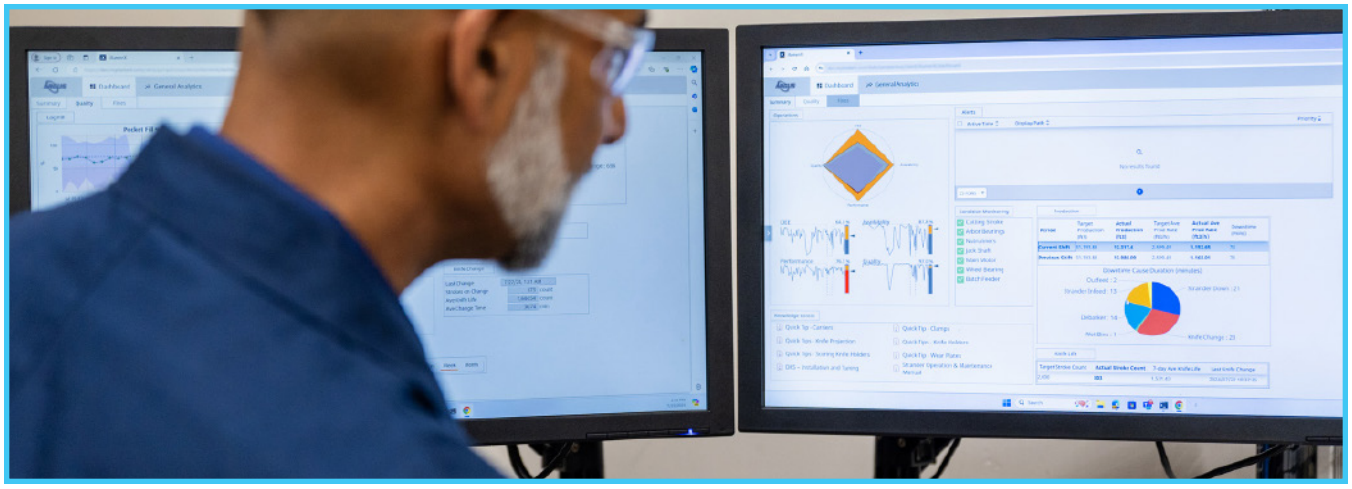
Developed and Supported by the Global Leaders in Strand Technology

We begin every customer inquiry with an in-depth consultation to define your production targets and understand what metrics are important to track for your strand-based engineered wood processing operation. We also provide regular check-ins and reviews to confirm your log throughput and strand quality targets are being met, ensuring your team is extracting the maximum return on investment from our Argus production monitoring technology.



Make more informed process improvement decisions

Increase Visibility & Transparency

Strengthen Operator Skill Levels

Improve Targeting & Forecasting

Optimize Productivity & Efficiency

ARGUS *Get more insight. Make better decisions.*

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