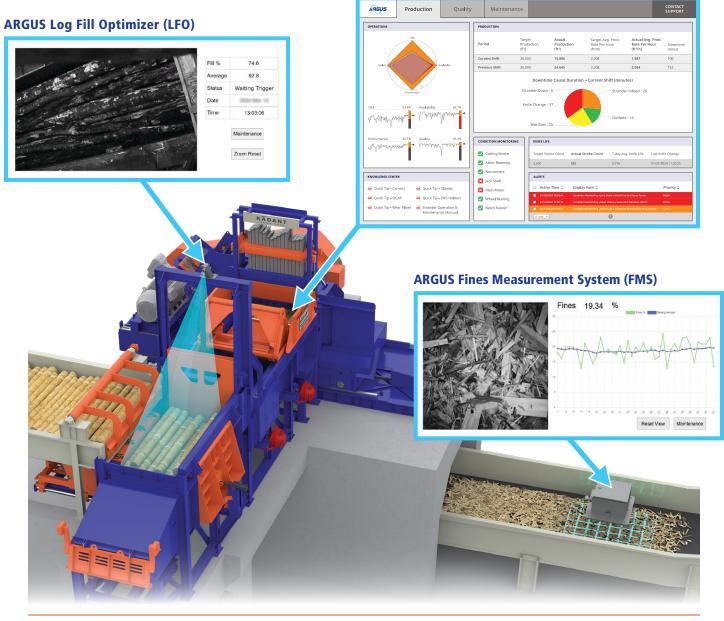
### Optimize your strander in real-time with ARGUS Smart-Connected Technologies

As part of Kadant Carmanah's commitment to continuous improvement, our line of *ARGUS Smart-Connected Technologies (SCT)* provides wood room operators and management with the data they need to produce better quality strands, improve strander production, and prevent unexpected downtime.



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

#### **ARGUS Condition Monitoring & Intelligence (CMI)**



## ARGUS Smart-Connected Technologies (SCT)

### **HOW ARGUS SCT WORKS**

### **Delivering the Metric for OEE at the Strander**

**ARGUS Smart-Connected Technologies (SCT)** combines and analyzes data from our proprietary vision systems, an array of condition-monitoring sensors, and existing PLC tags, to provide Oriented Strand Board (OSB) producers with data-driven insights about how their strander is operating in real-time.

Live dashboards and reporting deliver accurate trending for Overall Equipment Effectiveness (OEE), with the ability to benchmark strander performance across multiple operators, shifts, lines, or mills.



### Developed and Supported by the Global Leaders in Strand Technology

Kadant Carmanah are stranding process experts focused on the OSB market. We've learned by listening to our customers and being responsive to their needs, to help them improve the efficiency, consistency, and quality of their strand output.

To put it simply: you will not find another strand technology manufacturer to partner with, who can match our commitment, experience, and successes within the global OSB market.

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### System 1: ARGUS Log Fill Optimizer (LFO)



### System 2: ARGUS Condition Monitoring & Intelligence (CMI)

OPERATIONS	PRODUCTION						
Carloy Avalida	Period	Target Production (ft <sup>2</sup> )	Actual Production [ft <sup>3</sup> ]	Target Avg. Prod. Rate Per Hour (ft%h)	Actual Avg. Pr Rate Per Hour (ft?/h)		
	Current Shift	26,500	15,896	2,208	1,987	106	
	Previous Shift	26,500	24,645	2,208	2,054	152	
	Downtime Cause Duration - Current Shift (minutes) Strander Down : 0						
OFF FOR AND	Kelle Change : 37 Wet Bins : 25						
Performance B4.3% Quality 01.4%	CONDITION MONITORING KNIFE LIFE						
	Cutting Stroke	Target St	oke Count Actual	Stroke Count 7-day	/ Aug. Knife Life Lav	t Krife Change	
	Arbor Bearings	3,000	552	2,716	01/	21/2024 11:20:25	
KNOWLEDGE CENTER	Nutrunners	ALERTS					
a Quick Tip - Carriers a Quick Tip - Clamps	Main Motor	Acth	e Time 0 Displa	iy Path 🗘		Priority 🗘	
Quick Tip – QCAP     Quick Tip – DKS Holders	Wheel Bearing				нан		
🥶 Quick Tip - Wear Plates 🛛 🛱 Strander Operation &	Batch Feeder		01/17/0204 (SOB 12 Candidoe Maniporing-Main Meter – Onive End Warston V-Mete HEGH     01/17/0204 (SY12-4) Candidoe Maniporing-jack Studio - Networking Brod Sanface Temperature LOW				
Maintenance Manual			Zines Y				

### System 3: ARGUS Fines Measurement System (FMS)



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LFO is a vision system that scans the log fill level at the strander infeed, measuring the amount of wood the strander consumes in real-time. OSB mills can now modify their infeed for higher fill rates, increased throughput, and improved operational efficiency.

OEE METRIC UNLOCKED: PERFORMANCE



CMI is a series of condition monitoring sensors that have been installed across all strander components and assemblies, to collect and analyze data-driven insight about how the strander is operating in real-time. OSB mills can now identify bottlenecks at the strander and detect equipment anomalies in real-time, and take immediate action to avoid unexpected downtime.

OEE METRIC UNLOCKED: AVAILABILITY

FMS is a vision system that continuously scans the strander outfeed conveyor to provide real-time fines percentages for every cutting pass. By automating the strand sampling process in real-time, this removes the variability and bias associated with inconsistent and infrequent strand collection procedures currently done by hand. With access to a far greater number of accurate strand samples, OSB producers can now make more informed process improvement decisions in real-time.

OEE METRIC UNLOCKED: QUALITY

## WHAT'S INCLUDED WITH EVERY ARGUS SCT SUBSCRIPTION

### **Secure Data Collection**

- Combined in One Centralized Database
- Secure Transmission & Storage
- Built-in Data Encryption & Security

#### **Service & Support**

- In-Depth Consultation to Define Targets
- Remote Anomaly Detection
- Regular Check-ins & Reviews

### **Condition Monitoring**

- 🗸 Define Thresholds
- Detect Anomalies in Real-Time
- Take Immediate Action

#### **Accurate Reporting**

- Graphs & Reports are Personalized to Your Goals
- Easy-to-Understand with Visuals & Summaries
- Cloud-based for Access on Any Device

### **Improved Decision Making**





Increase Visibility & Transparency

Maximize Maintenance Scheduling

Prevent Critical

Failure



Strengthen

Operator

**Skill Levels** 



Improve Targeting & Forecasting



Optimize Productivity & Efficiency

# **REUS** Get more insight. Make better decisions.

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Kadant Carmanah is a global supplier of high-value, critical components and engineered systems used in process industries worldwide