



# AUTOLOG<sup>®</sup>

## SAWMILL AUTOMATION

*A leader in vision, optimization  
and automation for the wood  
industry with systems sold all  
over the world.*



**VALUE THROUGH TECHNOLOGY, QUALITY & CUSTOMER EXPERIENCE**

From sawmill to planer mill (softwood and hardwood), Autolog offers a wide range of products and solutions, including customized control systems.



Log Scanner



3D Log Scanners



Carriage Optimizer



Control Systems

## SAWMILL OPTIMIZATION

### Log Sorter

- Optimization considering the curve sawing solution that could be found by the Gang Edger

### Primary Breakdown:

- **Scanner** (1 axis light curtain, multi axes light curtains and 3D full profile scanner (linear and transverse), snapshot type system)
- Autolog uses standard off-the-shelf sensors for all log scanners (*Hermery*®, *ScanMeg*®, etc.)
- All sensors are housed in a rugged frame for the harsh sawmill environment
- All systems offer best-in-class scanner technology and share the same operating philosophy

### Carriage Optimizer

(Softwood & Hardwood)

- Full profile scanner with 5" density and an accuracy of 0.025"
- Snapshot scan or continuous scan, up to 120 scans per second
- True Shape modelling

### Log Turner and Canter-Twin

- Optimization considering the curve sawing solution that could be found by the Gang Edger

### Secondary Breakdown:

#### 3D Scanner (linear and transverse)

- Linear scanner: up to 1,250 scans per second
- Transverse scanner: high scan density, every 1/4", slanted heads, 3,000 scans per second

#### Bull/Gang Edger Optimizer

- Best scan profile with 22° sensor orientation for highest width resolution
- Configurable for all types of bull/gang edgers on the market
- Supports curve sawing systems



Edger Optimizer



Trimmer Optimizer



Control Systems

**Transverse Edger & Trimmer Optimizers**

- Best scan profile with 45° sensor orientation for highest width resolution
- Sensors mounted outside of falling debris and dust path, no air line required for cleaning
- Multiple configurations available: two saws, three saws and more, top head, etc.
- Wane, skip, warp, bevel and side holes detection
- Classification of the reverse face for the appearance lumber
- Possibility to configure two sets of parameters per grade (high and low qualities)
- Advanced tools for solution analysis
- Splits and shakes detection (option for Trimmer Optimizer with 3D sensors)
- Unsound wood detection (option for Trimmer Optimizer with 3D sensors)
- Custom application in hardwood at the edger: laser lines display the solution to a human grader who can override it and force a new solution based on the visual defects present on the piece

**Tally System (Softwood & Hardwood)**

- Hardwood: automated measuring and sorting system with user interface and grade marks reader; redundancy auto backup available

**Lumber Sorter/Stacker Controls (Softwood & Hardwood)**

- Measuring sensors consist of standard off-the-shelf photocells, thickness sensors, encoders or transverse optimizers
- Autoliv uses best-in-class Allen-Bradley® ControlLogix® PLC units for all its control applications
- Control system allows running a sorter line up to 200 pieces per minute



### PLANER MILL OPTIMIZATION

#### Linear Planer Optimizer – ProGrader

- Compact, reliable and fast (3,000 feet per minute)
- Sensors include 3D, 2D and two mode tracheid units, all housed in a common module
- System includes: main unit, UV code printer/reader, Linear Tracking System (LTS), Dynamic Grading Zone, Grade Stamp Printer
- Aggressive return on investment (payback in less than a year)

#### Linear Tracking System (LTS)

- Control module that provides detailed and precise data on the tracking and synchronization of pieces according to their position, the space between them and the production line speed
- Tracks and monitors moisture meter and MSR data (if available)

#### Dynamic Grading Zone

- QC tool that displays the optimizer solution and allows for it to be modified
- Ink or spray paint system not required
- Operates on chains without lugs

#### Grade Stamp Printer – ProGSP (Softwood & Hardwood)

- Offers high print quality, durability, reliability, and the lowest cost of ownership
- “Managed Print” lifetime warranty on *inc.jet* components at no additional cost<sup>1</sup>
- Robust industrial design (easy and quick installation, shipped pre-assembled)

### OTHER SYSTEMS

#### Drying Optimizer – Saptek®

- Provides a completely automatic method of sorting lumber into two groups based on moisture content



#### Recirculation Reduction System

- Supports the elimination of pieces that circulate in the sawmill between the trimmer and the edger



UV Code Printer



Grade Stamp Printer - ProGSP



Linear Tracking System (LTS)

<sup>1</sup>Shipping and handling not included, some conditions may apply.



Modular Frame for Transverse Optimizers  
**A first in the industry**



**Autolog is continuously investing in the development of new and innovative technologies and in building long-lasting partnerships with customers through customized products, services and training.**

### **Quality, Technology and Customer Experience.**

Each of these key elements precisely define who we are and how we conduct business.

#### **QUALITY**

Quality transpires in everything we do. From the way we wire our cabinets to the components chosen for our systems, all the way to our management methods, production and service. Indeed, quality is found in our people, processes and products.

#### **TECHNOLOGY**

We are a technology driven company. We deal in the expertise of optimization, artificial vision, artificial intelligence and optical & wave physics.

#### **CUSTOMER EXPERIENCE**

Our partnership approach and active listening allow us to adapt our standard and tested solutions to our customers' specific needs.

From initial contact to our unparalleled after-sale service and support, we approach every project with a desire to understand our customers' needs first and foremost, and to deliver accordingly.

All of our quality and technology elements are focused on providing the customer with the most value for their Autolog investment. Our strategy is to optimize Total Cost of Ownership (TCO) and Return on Investment (ROI).

### **WHAT MAKES US DIFFERENT?**

Autolog is a technology driven company. We can choose to make all of our specialized software/hardware, or adapt our solutions to those of a variety of suppliers and layouts, quickly and easily. We do so in order to respond to the specific needs of our customers and to meet the growing demands of our industry.



**We deliver products and services aligned with our customers' needs.**  
**Whether you entrust us with a service visit, modifications to your existing systems, or to invest in a major project, we partner with you every step of the way.**



Transverse Trimmer Optimizer



Linear Planer Optimizer - ProGrader



Carriage Optimizer



Bull Edger/Gang Optimizer

*“Even though this project was complex, the team was always there to find solutions. They would listen, discuss and then work on the right solution. I would recommend Autolog to anyone searching for a similar optimizer system without any hesitation.”*

**Patrick Harrigan,  
Harrigan Lumber Company, Inc.**

*“The Autolog ProGrader generates a very strong uplift in all products but greatest was with 5/4. Payback will be less than a year. The ProGrader will grade lumber accurately and consistently at full speed. The Autolog install team did a bang-on job on a flawless execution and education.”*

**Joey Massingill,  
East Alabama Lumber  
Company**

*“It was very well appreciated how Autolog listened to all of our needs and did exactly what we wanted 100%. They are a well-established and reliable company that we can depend on. We highly recommend Autolog.”*

**Allan Bose,  
Stag Timber of the  
Teal-Jones Group**

*“Their 28 years of experience in our industry is a sign of respect and active listening for their clients.”*

**Christian Carrier,  
Carrier & Bégin, Inc.**



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