

MillExpert Carriage Optimizer System

Setting a new standard in performance with unparalleled accuracy and simultaneous front and back side scanning, it's the only system capable of full log breakdown grade sawing that can also be configured for hardwood MOF applications.

Solid Wood Products

Sawmill Systems

Dry Kilns

Planermill Systems

Scanning & Optimization

Machine Controls

Engineered Wood Products

Veneer/Plywood Systems

Engineered Wood

Non-Wood Technologies

Scanning & Optimization

Machine Controls

Customer Support

Service

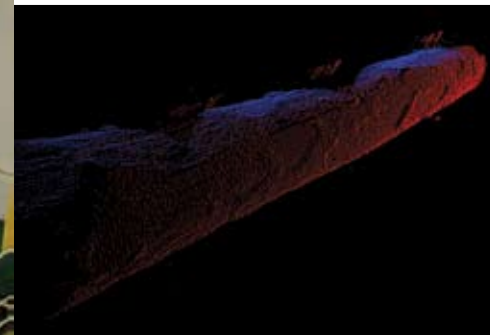
Training

Parts

Upgrades



▼ Actual raw scan data taken from LASAR sensors in a Carriage application during production. The red data comes from the frontside sensor and the blue data is from the backside sensor.



High Density 3D Scanning

This full coverage 3D scanning sensor has unparalleled resolution and data density providing more accurate log volumes, and better monitoring of yield and overall mill performance.

Typical Configurations

The LASAR™ based MillExpert Carriage Optimizer combines dense 3D scan data with the power of today's high-speed computers to let you get the maximum value from every log.

With simultaneous front and back side scanning and unparalleled accuracy and data density, the system sets a new standard in performance. It's the only system capable of full log breakdown grade sawing and can also be configured for MOF (minimum opening face) in hardwood applications.

The system provides detailed breakdown rules that can be set for each species and fiber class along with other options including configurable face cut orders, configurable minimum opening face sizes and lengths, half taper, full taper, and no taper options.

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Seeing the Whole Log

Up to 300 degrees of log coverage, front and back, with a dense data blanket, not sparse scan lines (tens of thousands of data points from the backside alone)

- ▶ Generates real data for the back side of the log – instead of assumptions based only on knee positions, as in systems with less-advanced sensors
- ▶ Seeing the whole log allows more accurate product fits on the front and back of the log, leading to better recovery
- ▶ Significantly reduces false lines and missed faces
- ▶ The only proven front and back Carriage scanning system (over 65 installed)

Scans Full 3D Image

- ▶ Scans full 3D image of the entire stem in one place, even very crooked and swept stems
- ▶ Dead-on opening faces – especially on small, rough logs
- ▶ True, best opening face solutions with one scan
- ▶ Log lengths detected to 1/2" no need to move the carriage to get the log length

High Accuracy Sensor System

Highly accurate sensor system with dense data sampling

- ▶ Log diameters within 0.125" with single point resolution of 0.036"
- ▶ Better detection of sweep, taper, ovality, and defects

Multiple, Adjustable Scan Zones

Small, medium, and large scan zones ensure maximum coverage area and maximum scan density on every size log

Stop-n-loader Scan Zones

- ▶ Allows pre-positioning of the carriage knees to accept the next log, pre-loaded close to the saw line
- ▶ Allows faster throughput

Wide Field of View & Wide Depth of Field

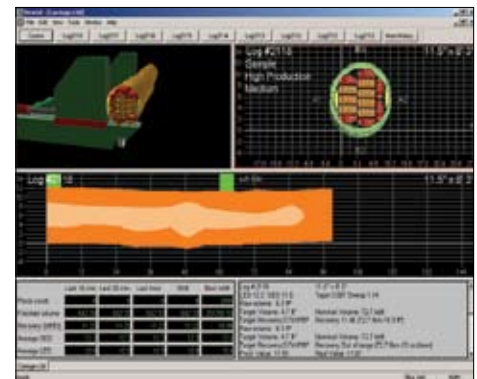
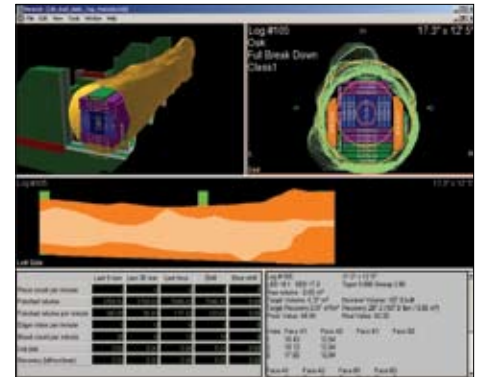
- ▶ Whole log is always seen
- ▶ No critical knee positions for large logs

Flexible Mounting

- ▶ Maximizes the view of the bottom half of the log
- ▶ Can be mounted on building columns or simple steel tubing – no need to buy and install a large scan frame
- ▶ Immune to ambient light. Can operate with direct sunlight on the target

Reliable & Low Maintenance

- ▶ No daily cleaning
- ▶ No scraping pitch off the lenses – just dust them off once a month



Complete Suite of Reports

Provides complete system production and performance information for accurate management decision making.

Reports on Demand

Print reports on demand or automatically to a preset schedule. Information is available when you need it.

Export Reports

Export reports to other formats like spreadsheets, databases, word processors, and email. You can easily share information with colleagues and re-purpose information for statistical purposes. Also supports the Central Database and Millwide Web interface.

Create Your Own Custom Reports

Custom-design reports as needed for your mill's specific needs. Uses industry standard Business Objects™ reporting software and dBase IV databases.



Note: USNR continually adds new features to enhance our products, based on customer requests. Our closeness to our customers' needs and attention to the demands of the marketplace keeps us in the forefront of wood processing technology. Because of that, please note that the specifications for our products will change rapidly as we improve our systems further.

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