



Information Systems

Primary Breakdown

Secondary Breakdown

Control Systems

MILLEXPERT BUCKING

MillExpert Bucking Optimizer System

Full 3D Modeling and Optimization Capabilities for Maximum Value



With more features, capabilities and scanning options than any other system in the industry, the MillExpert Bucking Optimizer System combines dense 3D scan data with the power of today's high-speed computers to let you get the maximum value from every stem.



The complete solution includes scanning, optimization and information management, enabling you to custom configure the system to fit your exact needs. Extremely flexible 3D data acquisition configurations range from stationary, lineal or transverse with single, dual or triple process line capability.

Full 3D modeling and optimization capabilities model all downstream machine centers including auto rotation, curve sawing, wane rules on boards, cost of edging, and "number of sawlines" penalty for multiple pass operations.

Optimization

Configurable to Model Machinery

- ▶ Completely models the downstream machine centers (including whether curve sawing is available)
- ▶ Models whether bucking saws can remove waste pieces from the middle of the stem
- ▶ Models fixed pattern breakdown
- ▶ Configurable routing codes to run log sorter
- ▶ Full support for metal detectors

Operation can be Fined Tuned

- ▶ User-selectable method of evaluating log diameters within the stem
- ▶ Configurable maximum time allowed for optimization
- ▶ Configurable longest and shortest log lengths that may be cut
- ▶ Product value evaluation methods are sawlog "full fit", volume, veneer, sawlog pattern, variable length, JAS standard and price per piece

Detailed Product Description Entry Windows

- ▶ MillManager product setup screen allows complete detailed descriptions of log products including the allowable ranges of small and large end diameters, taper, and sweep
- ▶ Board products can be associated with log products so that certain boards are cut only from certain log grades
- ▶ Configurable bin destination for each log product
- ▶ Detailed log product grading capability: by density, eccentricity, wobble, nodal swelling, catface, fluting, kink, machine damage, resin pockets, scars, rot sap stain, and more, including detailed knot grading
- ▶ Veneer product descriptions include core size, core thickness, and roundup values

"Re-optimization" Features Off-Line Analysis

- ▶ 3D stem images can be automatically saved to files for later off-line "re-optimization"
- ▶ Off-line and on-line results are identical, allowing for fine-tuning of settings without risking real wood
- ▶ Seamlessly integrates to other USNR optimizers

User Friendly Interface

- ▶ **Microsoft Windows XP Professional®** multi-threaded, multi-tasking, preemptive operating system, supporting multiple processors on an Ethernet local area network (LAN)
- ▶ Photorealistic high-resolution 3D graphics with configurable user perspective

User Assistance

- ▶ Technical support by telephone and e-mail along with remote debugging by modem or broadband internet



Partner

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.



MILLEXPERT BUCKING

Supported Scanners

- ▶ LASAR - 3D stationary snapshot transverse scanning
- ▶ TriCam - 3D lineal scanning
- ▶ Other third party scanners - Also works with many other third party 2D and 3D scanners. Call to inquire about connectivity for your specific scanner.

Complete Suite of Reports

Provides complete information on system production and performance, 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 e-mail. Allows you to easily share information with colleagues and re-purpose information for statistical purposes. Also supports the MillWide Web reporting interface

Create Your Own Custom Reports

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

Millwide. Worldwide.

USNR