

Information Systems

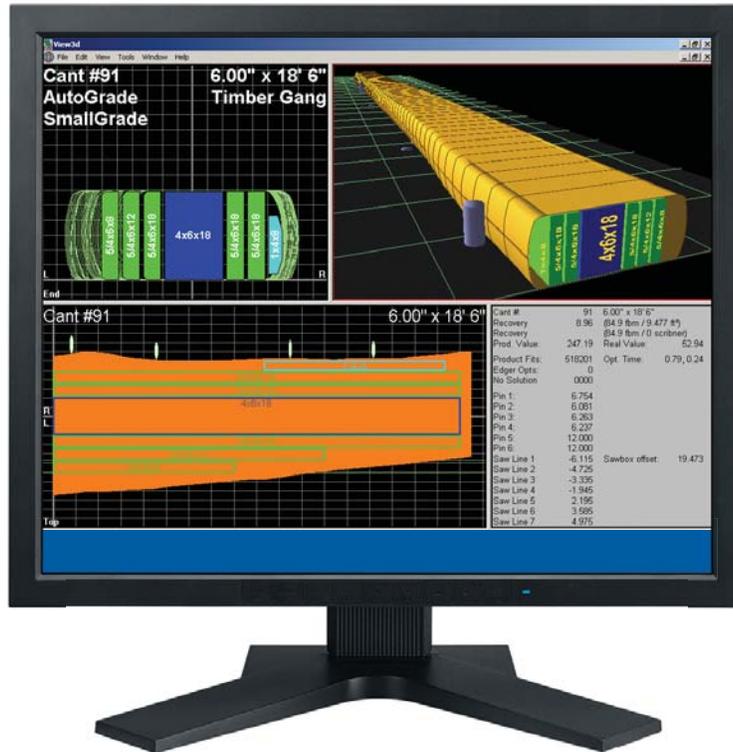
Primary Breakdown

Secondary Breakdown

Control Systems

## MillExpert Cant Optimizer System

3D scanning with full support for curve sawing



CANT OPTIMIZER

Combining dense 3D scan data with the power of today's high-speed computers, the MillExpert Cant Optimizer System lets you get the maximum value from every cant. The complete solution includes scanning, optimization and information management along with full support for curve sawing.

Advanced capabilities include surface feature recognition which allows cant characteristics such as diameter, length, taper, sweep, and surface roughness to classify user definable grades. Multiple, concentric grade zones can then be easily configured within the cant allowing different products with different values, targets, and wane rules to be placed in specific areas of the cant.

## Configurable to Model Machinery

Includes parameters to:

- ▶ All saw, chipper, clamp, and pin characteristics
- ▶ Gang saw spacing, including fixed or variable board spacing
- ▶ All common curve sawing machine centers (both mechanically guided and numerically-controlled)
- ▶ Machine centers with left or right linebars and cant rotation
- ▶ Cant positioning methods including lineal and transverse
- ▶ Lineal and transverse

## Detailed Product Description Entry Windows

- ▶ Offers unlimited number of products with up to 16 lengths per product
- ▶ 4, 5, 6 and 8-point wane models, including secondary wane, with graphical representation of each product
- ▶ Quick cutplan change and board product activation
- ▶ Assignable bin destinations for each product

## System Fine-Tuning

Includes parameters to specify:

- ▶ Up to 12 skew orientations for the optimizer to consider
- ▶ Up to 12 curves for the optimizer to consider
- ▶ 1-7 order polynomial sawlines for the optimizer to fit for curve sawing solutions
- ▶ Programmable radius of curvature for various cant diameters
- ▶ Vertical shifting of solutions
- ▶ Opening face requirements
- ▶ Configurable edging and planing penalties
- ▶ Chip limits
- ▶ Risk analysis

## "Re-optimization" Features Off-Line Analysis

- ▶ 3-D cant images can be automatically saved to files for later off-line "re-optimization"
- ▶ Re-optimizes hundreds of recorded cant images in minutes
- ▶ Off-line and on-line results are identical, allowing for fine-tuning of settings without risking real wood

## System Architecture

- ▶ **Microsoft Windows XP Professional®** multithreaded, multi-tasking, pre-emptive operating system, supporting multiple processors on an Ethernet local area network (LAN)
- ▶ Most common PLCs supported
- ▶ Configurable Business Objects™ reporting package

## User Assistance

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

**Microsoft**  
GOLD CERTIFIED

Partner

**Allen-Bradley**

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 CANT OPTIMIZER



## 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.

## 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**