



**PLANER
GRADER
OPTIMIZER**



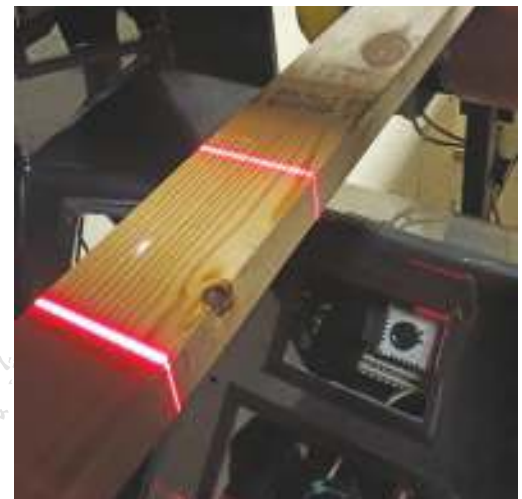
TIMBER AUTOMATION COMPANIES:



PLANER GRADER OPTIMIZER

ADVANTAGES

- Proven performance in random & stud mill
- Best grading quality in the industry
- Best value in the industry (ROI)
- Permanent calibration
- Decrease of trim loss & manpower
- Unique board tracking technology
- High standards components
- Lowest operation & maintenance cost
- Increases the amount of Premium Grades and 2 % Btr
- Decreases the amount of #3 and Economy grade
- Simplifies installation with its small foot print and integration into existing production lines
- Increases production by eliminating the time required by manual graders to analyze boards



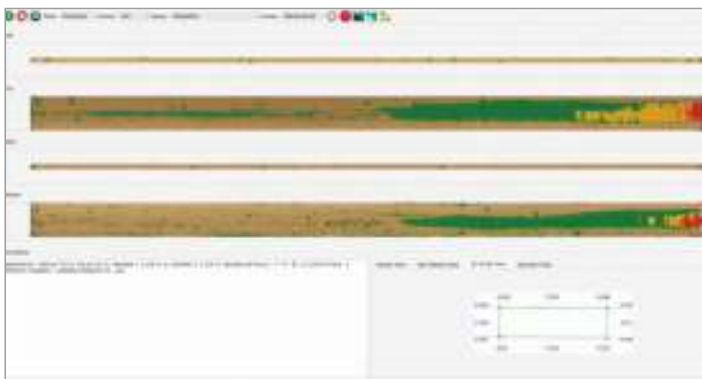
GEOMETRIC ACCURACY

- Thickness $\pm 0,005''$
- Width $\pm 0,005''$
- Length $\pm 0,060''$
- Eased edge $\pm 0,005''$
- Skip $\pm 0,005''$
- Wane $\pm 0,015''$
- Holes $\pm 0,015''$

NATURAL

- Splits and shakes
- White speck, decay and rot
- Slope of Grain
- Compression wood
- Knots
- Blue Stain

REAL-TIME BOARD VIEWER



PRODUCTION & INTERFACE



LINEAL OR TRANSVERSE WARP SYSTEM



ADVANTAGES

- Transverse or Lineal Module
- Small footprint
- No Maintenance
- Non-contact measurements
- Non-Held boards between rolls
- End-Trimming and cut-in-two options
- In house grade rules feature and combined values

TECHNICAL SPECIFICATIONS

- Accuracy: $\pm 0,125''$
- Up to 240 boards / minute in transverse
- Up to 2500 feet / minute in lineal

AIR BOARD TRACKER

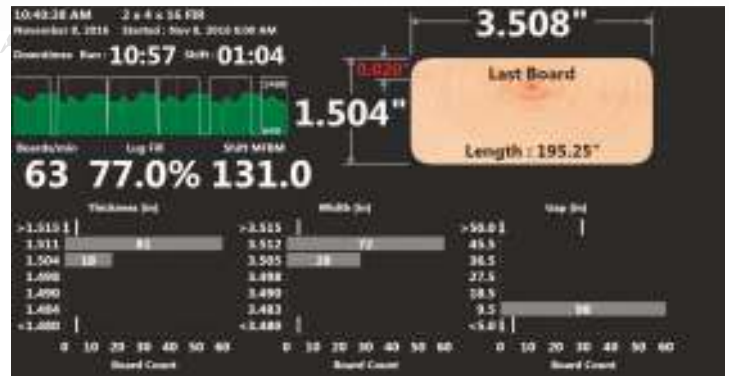
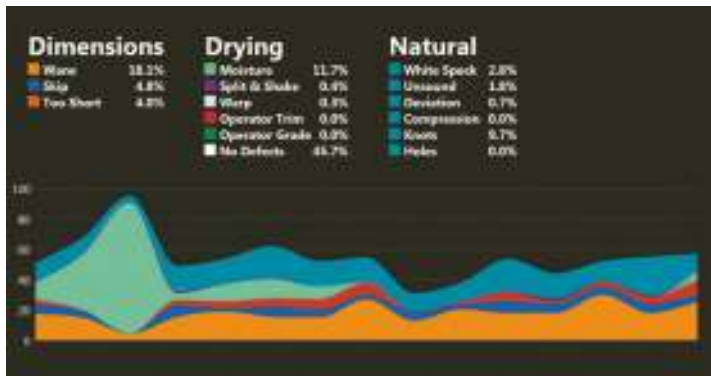
ADVANTAGES

- Allows board tracking in lugless section between planer and lug loader
- Virtual board numbering
- No ink/No contact/No speed limit/No maintenance
- Easy to install
- Lug loader management =Photocell replacement
- Sorter chain/Planer feed management
- Easy integration for quality control purpose (Landing tables)



PRODUCTION CONTROL TOOLS

PRODUCTION AND QUALITY CONTROL DISPLAYS



EFFICIENT AND CUSTOMIZE PRODUCTION REPORTS

Production Data Report
Shift: Night - 11/16/2016

Man: 11/16/2016:08:00 Shift: 11/17/2016:8:00:00 Division: N/201 Team: 2004 Supervisor: [Name]

Run produced: 323,839	Sorts/ft: 34,697	Down Efficiency: 52.9%	FBR: 26.5%	DB: 42.2%
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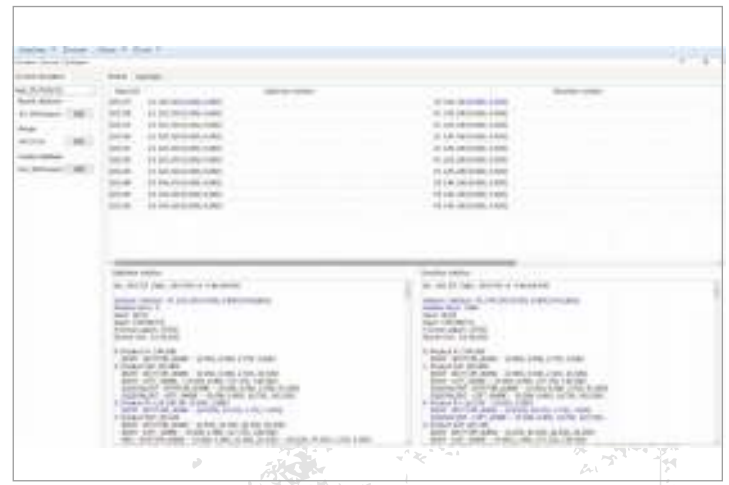
Operational Performance

Operational Process	Run	Target	%	Unit	Operational Speed and Accuracy	Target
Running time	8:53	9:00	98.2%	1000	Full layout	31,280
Break time	0:00	0:00	0%	1000	Full layout	20,217 (79.1%)
Down time	1:04	1:00 (100%)	100%	1000	Speed (200%)	1,316 (84.0) (73.8%)
Running time	6:30	6:00 (71.4%)	71.4%	1000	Operational efficiency	42.9%

Operational Summary

Operational Summary	Run	Unit	Target	Efficiency	Unit	Target
Material in	11,117	100,000	100,000	100%	100	100,000
Material out	11,117	100,000	100,000	100%	100	100,000
Offload boards	11,117	100,000	100,000	100%	100	100,000
Offload boards during breaks	0	0	0 (0.00%)	0%	0	0
Offload boards during breaks	11,117	100,000	100,000	100%	100	100,000
Boards cut in run	0	0	0 (0.0%)	0%	0	0

PRODUCTION SIMULATOR



RING ANALYSER



ADVANTAGES

- Ring analysis and numbering by camera acquisition
- Automation of Dense Products grading process (Select, #1, #2 dense)
- Pith detection
- Distance between the boards and the pith
- Type of sawn board sorting (quarter sawn, plain sawn ...)
- Lug loader mistakes detection (two boards in the same lug...)
- Proprietary technology and software
- Small footprint and stand-alone system
- NO maintenance

POINTER PROJECTOR SOLUTIONS (PPS)

Hooked up to the **Air Board Tracker**, the **PPS** Projects in real-time all relevant quality control information such as :

- Grade (MSR, DSS, 2, 3, Stud, Economy etc...)
- Moisture %
- Boards dimensions : Length, thickness etc..
- Board ID
- And more.



PPS : Quality information

Combined with the **VAB View Grade Console**, the **PPS** becomes a real-time control tool. Mills staff can easily perform Grade tests in minutes ensuring your Profitability, Quality and Production objectives.



VABVIEW Grade Console



ADVANTAGES OF THE PPS

- Achieve Grade Tests in minutes
- Assure the Grading Accuracy
- Get fast and easy understanding information for the mills staff
- Assure your profitability, quality & productivity objectives



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