

Lucidyne's ChopScan®

Industry Leader for Defect Detection, Optimization, Precision, and Reliability

ChopScan® Scanning

ChopScan® contains an integrated set of sensors that scan each board lineally, identifying and mapping a large variety of defects.

- Scans all four faces of the board to provide maximum board data to reach the most accurate cutting solution.
- Creates an electronic image of the board's faces — with defects identified — and passes that total image to the ChopScan® optimizer.

ChopScan® Optimization

ChopScan's optimizer uses high-speed processors to run Lucidyne's proprietary optimization algorithms. After scanning, each board's image is passed to the optimizer for processing. In the time that it takes the board to travel from ChopScan® to your chopsaw, ChopScan® calculates the optimal crosscut solution. Our proprietary algorithm ensures that the maximum value is captured from each piece of wood that passes through the ChopScan®, by allowing for virtually limitless part and grade combinations.

Perceptive Sight™ Intelligent Grading

uses Deep Learning techniques, a quantum leap in how lumber defects are identified. Our customers are seeing significant improvements on this new platform with Perceptive Sight™ and is only available from Lucidyne.

Support Tools

Along with Perceptive Sight™ and the Chop Optimizer, Lucidyne offers a full suite of tools to help maximize production and understand how your ChopScan® is running. From creating packages of test boards, to simulating what happens for a rule or price change, our tools allow you to fine tune your operation without the risk of downtime or negative impact to your running line.

Ideal for

- Furniture manufacturers
- Door manufacturers
- Moulding and Millwork manufacturers
- Building Component manufacturers
- Flooring manufacturers
- Pallet manufacturers



(541) 753-5111

 Lucidyne

ChopScan®

DEFECT DETECTION

Defecting, Optimization and Reports

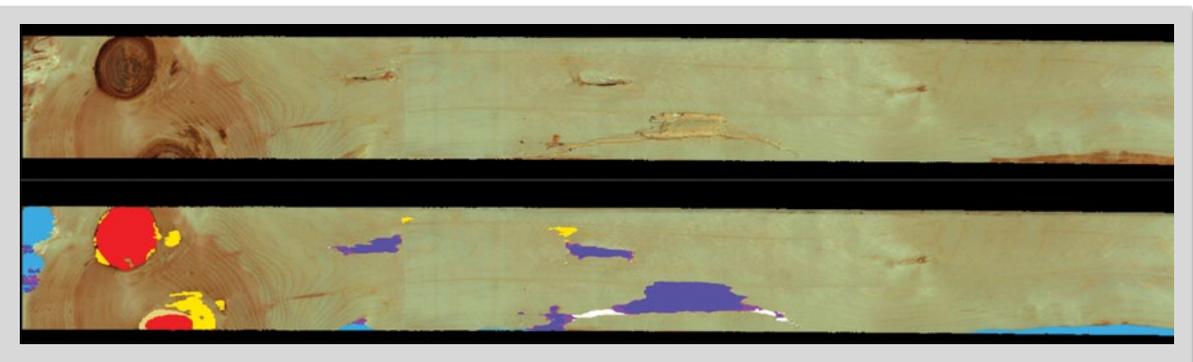
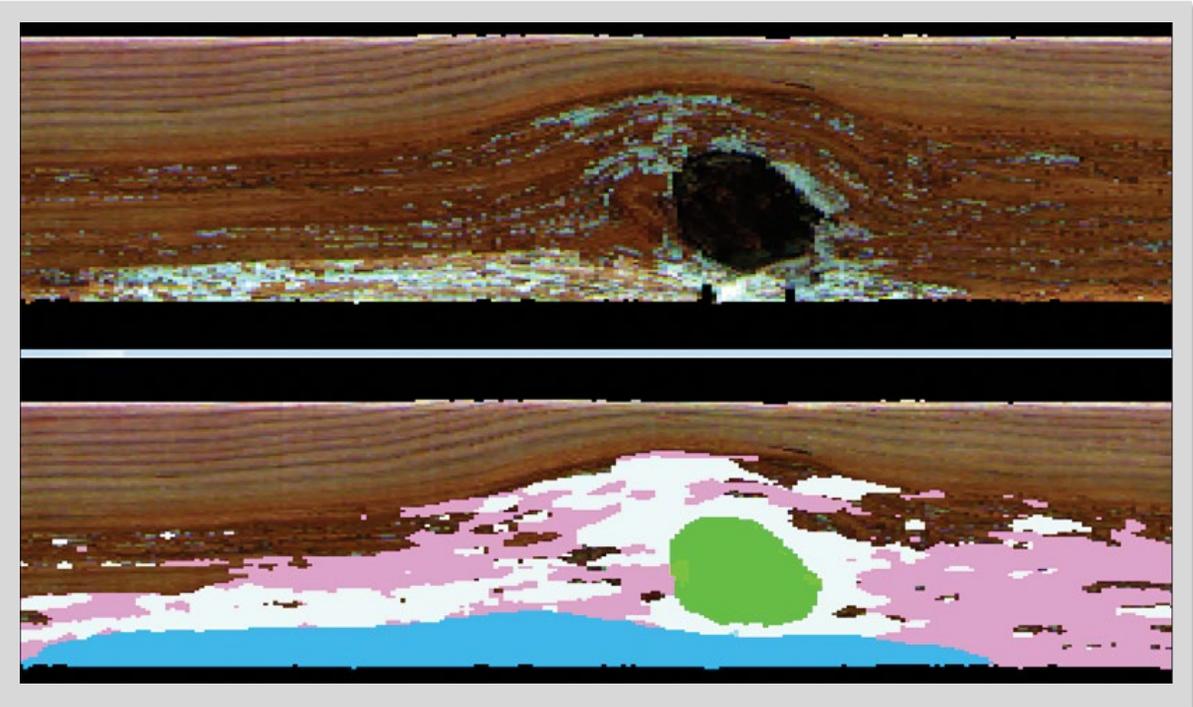
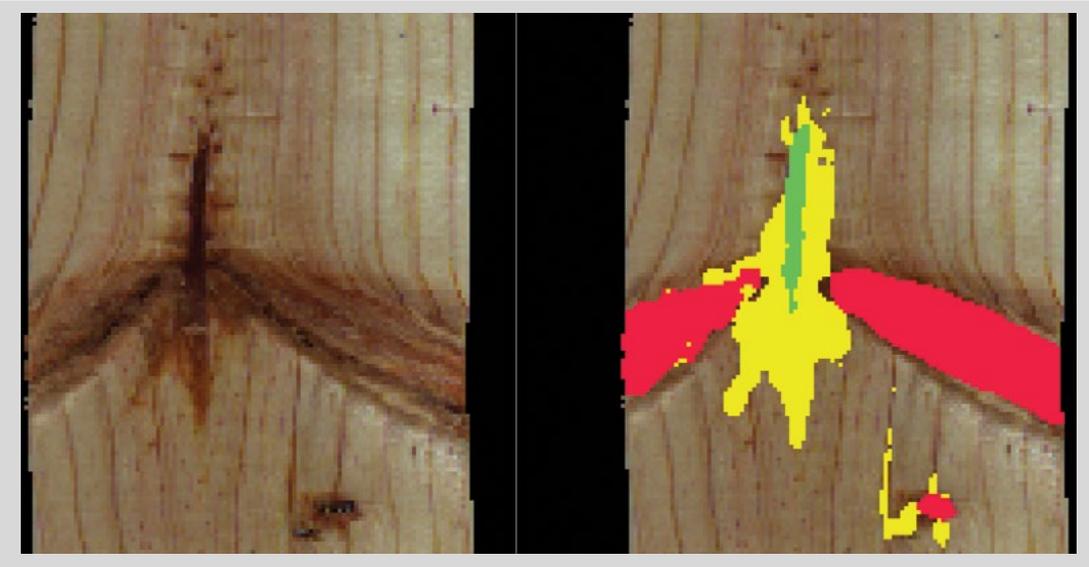
Perceptive Sight™, our latest generation software algorithm, uses Artificial Intelligence to identify defects and characteristics with precision never seen before in any automated scanning system.

For example, Perceptive Sight™ separates a knot from the pitch that shares its border, and identifies good fiber around a knot that might otherwise be classified as part of that knot. Quite simply, Perceptive Sight™ is a quantum leap in how automated lumber grading is done.

Our Perceptive Sight™ booklet provides many defecting examples across a variety of species.

Features

- ChopScan® consistently outperforms human operators by precisely locating defects on all sides of the lumber, then applies your production requirements, and considers downstream processing with split-second processing.
- ChopScan® reduces overhead, eliminates cross-cutting errors and improves production rates.
- ChopScan's impressive reports package — reoptimization and cutbill pricing system.
- Production reports detail board width, category, run, shift and total value.
- ChopScan® provides access to the underlying data so mills can configure their own data extraction.
- Supplier Database archives board data by source and grade, so you can evaluate your suppliers to negotiate prices and identify best-quality suppliers.



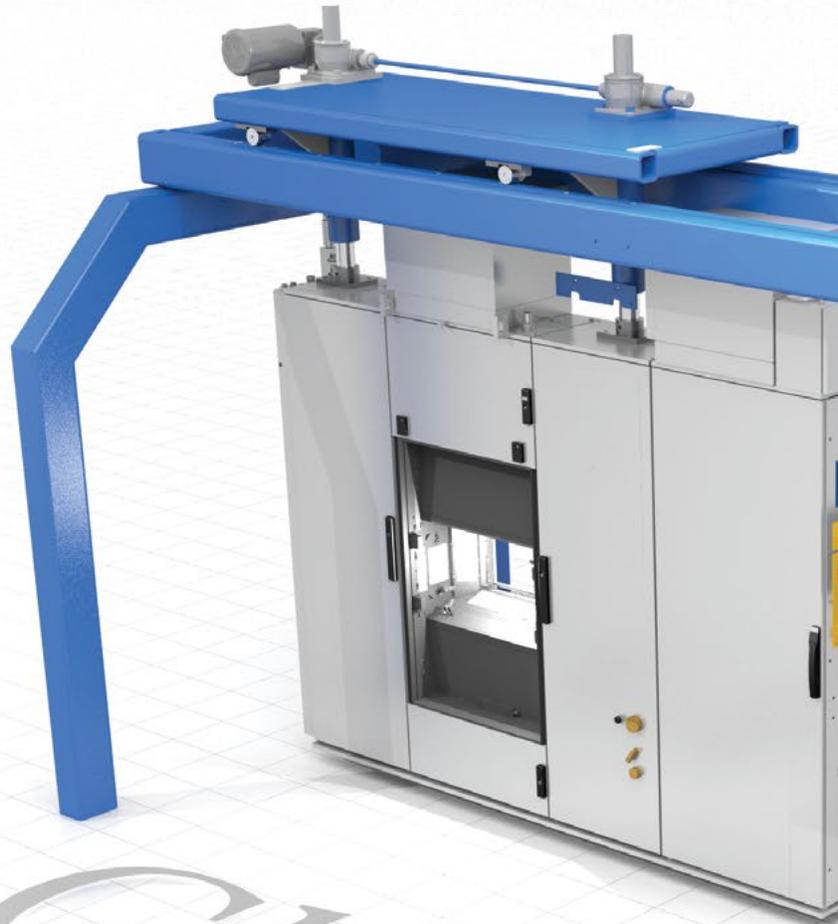
ChopScan®

CAPABILITIES

High precision, useful production tools, and reliable build make Lucidyne's ChopScan® the industry leader.

Features

- Mounted on an overhead carriage for easy maintenance, slides out for maintenance.
- Rugged construction for minimal mill level maintenance.
- Most complete sensor array in the industry.
- Minimal sensitivity to vibration
- Environmentally controlled enclosure is unaffected by temperature variation.
- Installation requires little or no downtime.
- Third-party sensors for moisture, and other data are easily integrated.
- Optional warp sensor measures bow, crook, and twist in the boards natural, relaxed state.





Production Tools

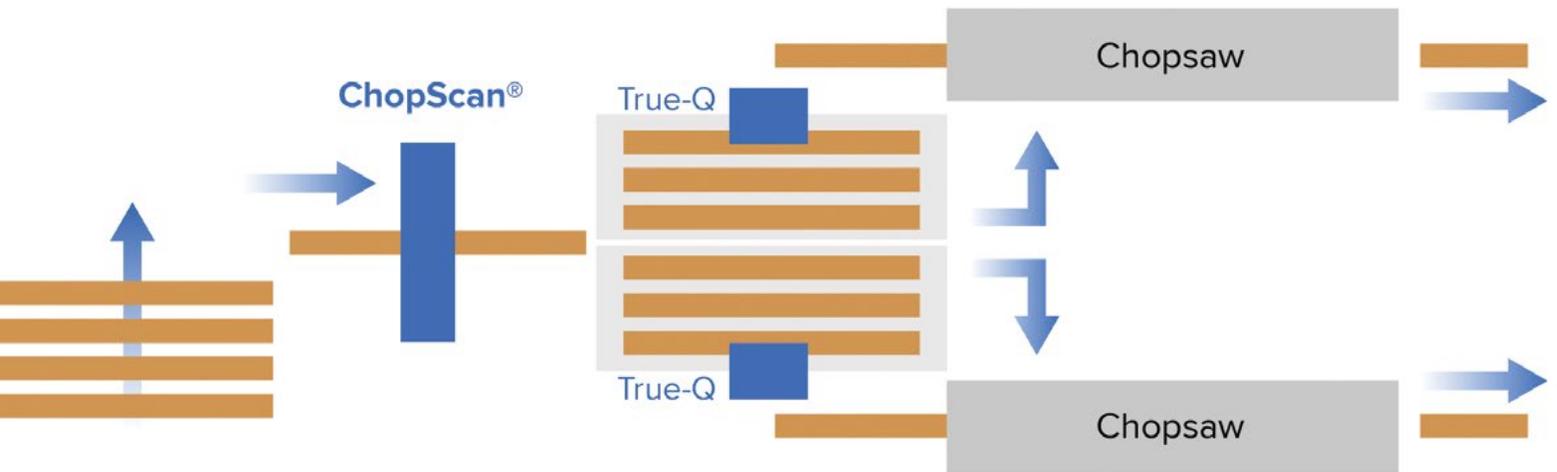
- Off-line Simulation tools minimize mis-configuration and prevent downtime.
- Simulate changes over a full shift of production.
- Offline tools help QC and grade checks.
- Store up to 12 months of production with optional NAS long term storage.
- Save every picture, every optimized solution, every thumbnail, all moisture data, all tracking information, all defects, and more.
- Ongoing access to the latest breakthroughs, advances, and upgrades.

Safeguards

- Simple, easy to access controls.
- Lights, alarms and messages ensure safety and optimal performance.

ChopScan® SYSTEM LAYOUT

ChopScan's ultra-thin profile
minimizes space requirements.

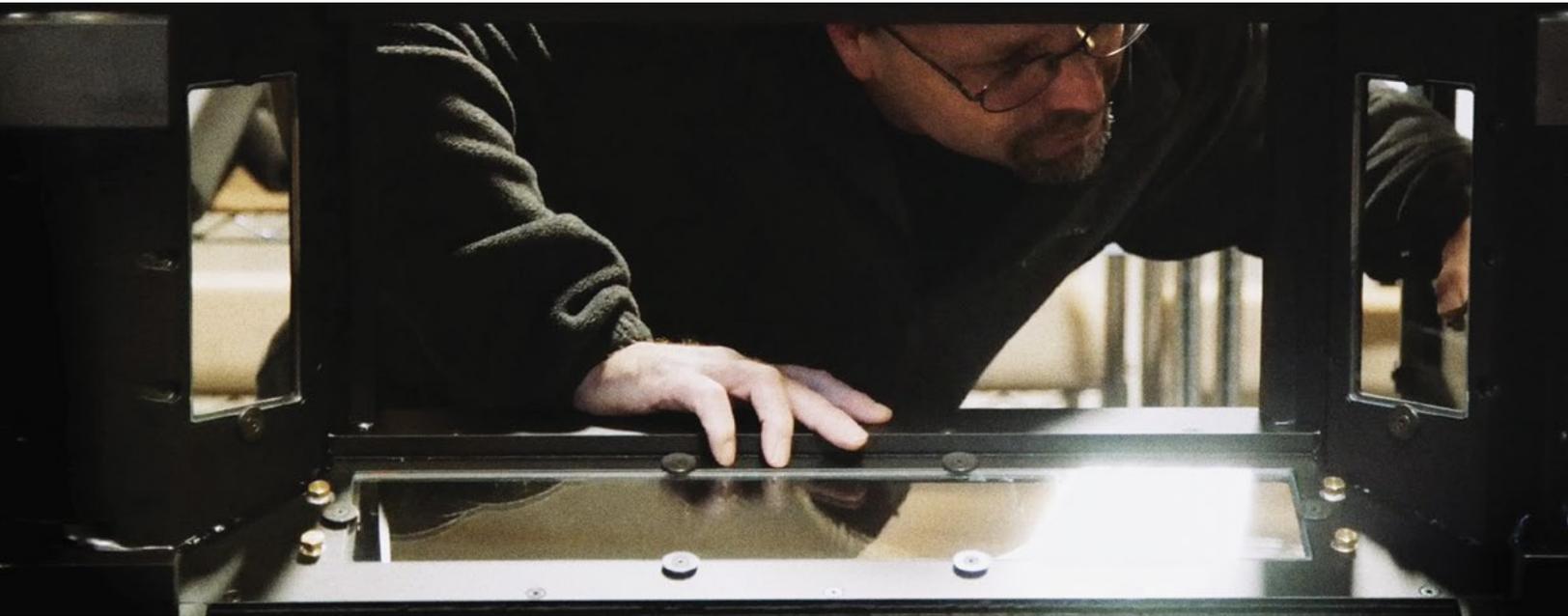


- Optional TrueQ® patented board tracking system double-checks that boards are have not become crossed up between the scanner and the saws.
- Optional warp sensor measures bow, crook and twist in the board's natural, relaxed state.
- Maintenance is easier and less expensive with our single sensor set.
- Optional third party sensors for moisture, and other data are easily integrated.

Service

BACKED BY EXPERTISE

Service is our hallmark. We're proud of our reputation for forming partnerships with our customers, and making sure that your system continually operates at peak performance.



Mill Customization

Our engineers meet with your staff. We listen, ask questions, study your site, and come to know and understand your operation — your species, your products, your markets and goals.

Installation

A typical installation requires little or no downtime. Our team installs your ChopScan® in just a few days. It's up and running without long periods of trial, error and on-site adjustments.

Start-Up

Your key staff, trained by our Scanner Specialists prior to shipment, are ready to run your ChopScan® in your mill, right out of the box.

Service/Maintenance

- 24/7/365 technical support.
- Backed by the depth of our entire staff.

Comprehensive Support Contract for

- Comprehensive Support Contract for ongoing preventative maintenance.
- On site maintenance visits.
- Included technical support.
- Software updates to keep your system current.



Ongoing Development

In our lab, adjacent to our main office, our R&D team works with a fully-loaded scanning system to facilitate ongoing development, and to evaluate and optimize solutions for customers' lumber.

Our collaboration and the pursuit of excellence insures our ever-expanding definition of optimization.

Lucidyne customers have ongoing access to the latest breakthroughs and advances, in addition to the following:

- System Retrofits
- Software Upgrades
- Spare Parts Inventory
- On-Site Service

Lucidyne

[Lucidyne's ChopScan®](#) is another example of Lucidyne's ongoing commitment to innovation and manufacturing excellence. We've been setting the industry standards since 1985.

Our home is in downtown Corvallis, Oregon; within walking distance of the world-class forestry department at Oregon State University. Just minutes away is our state-of-the-art manufacturing facility.

See our website for all of Lucidyne's products and to learn more about the Lucidyne team.



CHRIS COURNYER



KENZIE CHURCH



CHRIS MATIER



JOHN RHEA

The Lucidyne Sales Team
