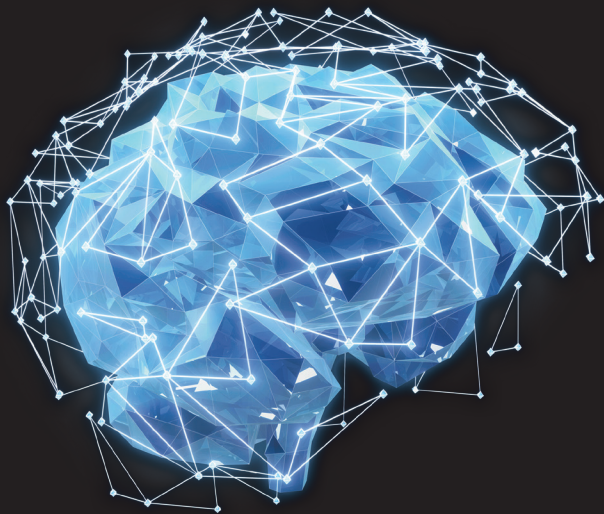# INCREASE THE VALUE OF YOUR SOFTWOOD PRODUCTION WITH PROVEN ARTIFICIAL INTELLIGENCE MODELS

SOFTWOOD GRADING AND DEFECT DETECTION ARE REAL CHALLENGES

Certain defects complexify machine grading, namely:

- incipient decay
- splits and shakes in dry lumber
- blond knots
- subtle appearance defects

The drying process can also be difficult when species are not sorted or off-species are not managed.

SOFTWOOD DEFECT DETECTION BREAKTHROUGH

BID's artificial intelligence (AI) with deep learning technology is taking softwood defect detection to the next level. Our AI models can now distinguish all elements, so errors are less frequent than with previous technology.

In fact, the Comact technologies enhanced with AI, combined with our industry-leading optimization software, have proven to be the most powerful and reliable.

AWESOME FACTS FROM OUR CLIENTS

With BID's deep learning AI models, softwood recovery value with a GradExpert™ is 99% to 99.5%.

The bottom line is that a 1% increase of recovery value translates into a significant boost of your production value and a short payback period (a few months only).

These numbers are based on data collected from over 100 clients with BID's AI models for softwood.

Have no doubt, BID's AI is the best. Let's just say that our AI models were also adapted for hardwood processing. As you know, defect detection in hardwood is complex. We've already sold over 30 systems, and BID's AI models have also proven to be the best for this market. Imagine what this level of defect detection accuracy can do for softwood processing.

BID offers the #1 AI system for softwood and hardwood. Ask our clients.

Contact us to learn more about our scanners with AI.

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KEY FEATURES

- Custom AI models developed by BID's AI experts specifically for wood to ensure a better performance than with generic algorithms
- Use of a combination of several AI models to ensure speed (100x faster) and unmatchable accuracy
- Same accuracy of defect detection on rough, dressed and appearance products
- Can be used with all softwood species (SPF, cedar, Douglas fir, white pine, etc.)

ARTIFICIAL INTELLIGENCE MODELS CUSTOMIZED FOR YOUR PRODUCTION

This is how we customize the AI models for your production:

YOUR SOFTWOOD GRADING AND DEFECT DETECTION CHALLENGES ARE IDENTIFIED AND OBJECTIVES ARE SET. → **AN AI SPECIALIST COLLECTS AND ANALYZES SAMPLES OF YOUR SOFTWOOD.** → **YOUR SAMPLES ARE INTEGRATED IN DEEP-LEARNING AI MODELS.** → **AI MODELS ARE CUSTOMIZED FOR YOUR PRODUCTION IN ORDER TO ATTAIN OBJECTIVES.**

During production, the AI models predict defects and perform detection automatically and seamlessly in the background. Therefore, no AI specific knowledge is required.

INSTALLATIONS AND UPGRADES

BID has a large team of experienced AI specialists. To accelerate the start-up process on site, systems are preconfigured, AI models are pre-educated, and several tests and validations are performed.

Installation of a new scanner or an AI upgrade on an existing Comact equipment usually require a short downtime. Our qualified team performs final calibration and tuning on site and supports you to ensure a smooth transition.

During the first week of operation, you will already be seeing better results. After a few weeks of operation, you will reach maximum performance.

Afterwards, support is available with BID's renowned 24/7 service team.

You won't believe the quick payback!

No matter the size of the project, our AI system offers the fastest ROI in the industry.

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