Surface Finish Inspector

SFI

Problem

- A lumber mill's quality control process left some surface finish defects undetected. This resulted in reduced operating profits.

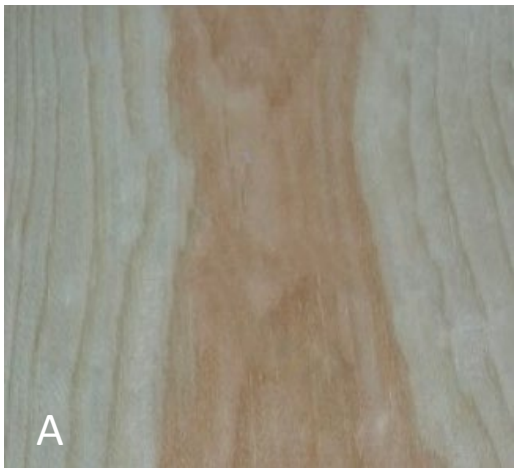
Solution

- Bodkin Design & Engineering created a high-speed machine vision system to find hard-to-see defects in the surface finish of boards.

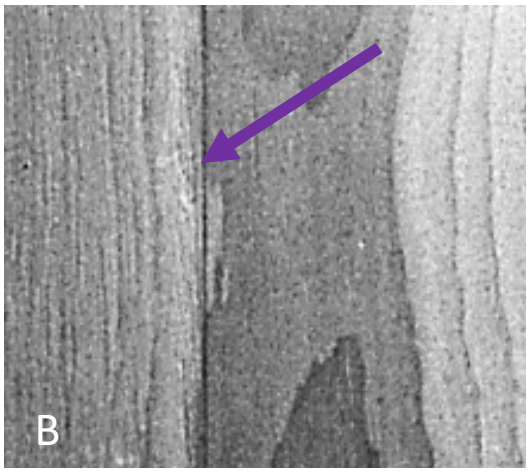
Benefits

- Identifies defects continuously to adjust machinery and eliminate errors in production.

Aesthetics are an important consideration in manufacturing finished wood boards. Bodkin Design & Engineering pioneered a unique instrument, the Surface Finish Inspector (**SFI)** to assist in the detection of defects in softwood boards. The **SFI** allows remote viewing so the QC inspector can identify defects and their cause. The **SFI** targets surface finish errors early in the process, at the source, minimizing defective board feet and maximizing profits.



A



B

One of the most challenging defects to detect is caused by misadjusted rollers in the planer. The mark is nearly invisible in the standard view (A). However, the **SFI** highlights this defect (B) which is then visible to the QC inspector in the control room. This initiates the adjustment of the machine to eliminate the cause of these defects, saving time and money.

BD&E creates sensors to solve tough problems. Reach out to us to see how we can help you!

BODKIN DESIGN & ENGINEERING

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