95% Automation Achieved in Blade Inspection with AI-Driven Platform

KEYSYS helped Buckman eliminate manual work and reduce errors by transforming their creping blade inspection process with computer vision.

CLIENT
Buckman Laboratories International is a **specialty chemical company** operating in **over 90 countries**, with expertise in **pulp**, **paper**, **leather**, and **water treatment chemistry**.

BUSINESS PROBLEM
Buckman's team **manually inspected 40-foot creping blades daily**, taking **30–60 microscope measurements** and entering them into **spreadsheets** to generate reports— **a process that was slow**, **error-prone**, and **labor-intensive**.

KEYSYS SOLUTION
KEYSYS built a desktop application powered by **AI-driven computer vision** to **automate blade measurements**, **calculate wear metrics**, and **instantly generate standardized PDF reports**.

IMPACT
KEYSYS automated 95% of Buckman's **blade inspection and reporting workflow—saving time**, **reducing errors**, and significantly **lowering operational overhead**.

Inspect Blade — Record Data — Analyze Data — Identify Errors — Report Findings — Manual Inspection

Before KEYSYS
Manual blade inspections, spreadsheet-based reporting, & high risk of human error.

After KEYSYS
Automated measurements & reporting using AI-powered computer vision.

95% of the process streamlined.

Automated Analysis — Computer vision system analyzes the blade

Data Flow — Data flows into a clean dashboard

Report Generation — PDF report is instantly generated