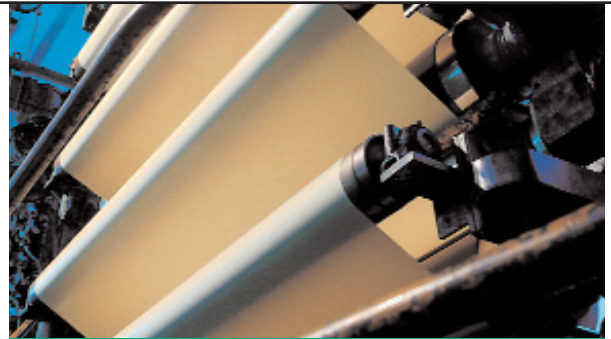


Tissue and Towel Maker Secures Production and Delivery Goals Using Patented Emerson Technology



RESULTS

- Major production line escapes catastrophic failure
- Production delays prevented during startup
- Immediate benefits following implementation



APPLICATION

Paper tissue and towel manufacturing

CUSTOMER

Gulf region mill producing consumer paper goods for a leading manufacturer of paper and building products

CHALLENGE

To satisfy customer delivery requirements, the mill was challenged to optimize the reliability of rotating equipment. Increased reliability reduces unplanned shutdowns and maintenance cost while increasing production capability. Existing monitoring equipment lacked the technology needed to detect failures before they became critical problems.

SOLUTION

After researching available reliability solutions, the mill's reliability team chose Emerson's CSI products and services to enhance their program's machinery diagnostic capabilities. The CSI 4500 Machinery Health™ Monitor was implemented on a critical paper machine to provide real time machinery health alerts. The mill's vibration specialists put the portable CSI 2130 Machinery Health Analyzers to work for periodic machinery health monitoring on the balance of plant equipment. Both products utilize Emerson's patented PeakVue® processing, a feature that is proving itself to be invaluable in paper industry. Both of these products integrate with Emerson AMS™ Suite: Machinery Health Manager software for alerts, analysis and reporting tools.

“A fault missed by our current monitoring system only became visible once we employed Emerson's PeakVue™ technology.”

“We prevented destruction of the bearing journal, a felt roll change, and hours of lost production.”

Reliability Group Leader

Within 48 hours of initial alarm tuning by Emerson's service team, the CSI 4500 Monitor alerted the vibration specialist of a potential paper machine fault. Using the AMS Machinery Manager software, advanced analysis was performed resulting in the call to shut down the machine. Physical inspection confirmed that the call was made at exactly the right time. Missing the warning would have resulted in a catastrophic failure on the paper machine.

The CSI 2130 analyzers have impacted business objectives within the first few months of deployment. When a CSI 2130 was used for routine startup testing, the reliability team detected a bearing problem that would have resulted in significant lost production and hampered the mill's ability to meet delivery deadlines.

"The CSI 4500 Machinery Health™ Monitor and I made the right call!"

"We flew in a bearing specialist who confirmed my recommendation to shutdown the machine. He said, "It was a good thing you made this call, because the bearing wouldn't have lasted much longer."

Reliability Analyst

Emerson Process Management Machinery Health™ Management

835 Innovation Drive
Knoxville, TN 37932
T (865) 675-2400
F (865) 218-1401

www.mhm.assetweb.com



Online Machinery Health Management powers PlantWeb through condition monitoring of mechanical equipment to improve availability and performance.

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