



Results-Driven Automation



Performance Services

Board Mill Receives 4-month Payback With Total Annual Savings of US\$500,000

The Paper Machine Optimization Service Solution did more than provide significant quality improvements. The board mill realized a 4-month payback on its non-capital investment, and total annual savings of US\$500,000



The performance of a board mill's PM#1 was neither acceptable nor profitable. In order to meet consumer-driven ring crush requirements, PM#1 required an additional two pounds of softwood fiber. The mill contacted ABB's Service team for a solution that would take out the extra fiber while ensuring that ring crush requirements would still be met.

Paper Machine Optimization Service implemented on PM#1

The ABB Service team recommended the Paper Machine Optimization Service as the best investment for identifying the performance barriers and implementing the required improvements. The Paper Machine Optimization Service offers specialized optimization methods and tools that provide paper mills with unique and proven solutions for improving paper machine performance. The ABB Service team worked closely with mill personnel to identify and realize several improvements.



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Success Stories

Control improvements in Stock Preparation resulted in reduced softwood fiber usage and increased moisture. These were the key factors in improving ring crush. Several sources of variability in the Headbox and Breastroll were identified and eliminated. Improved Steam Handling performance led to decreased sheet break recovery time.

The Paper Machine Optimization Service solution did more than provide significant quality improvements. The board mill realized a 4 month payback on its non-capital investment, and total annual savings of US\$ 500,000:

- US\$ 350,000 in annual fiber savings
- 10 minute reduction in sheet break recovery time
- 12% reduction in sheet variability

For more information on how ABB's Paper Machine Optimization Services can improve your paper machine performance and improve your bottom line, please contact the North America Customer Service center at 1-800-HELP-365 (outside of North America call 440-585-7804).

