

ABB Runnability Pack

Improve control utilization, and reduce off-spec product

“The most dangerous kind of waste is the waste we do not recognize.”

— Shigeo Shingo,
world-leading expert on manufacturing
processes including TPS, SMED and kaizen.

? Questions to consider

- If you're shipping by the gauge, are you sure your online measurements are accurate?
- Is your QCS properly set up, calibrated and fully utilized?
- Are you reducing lost production on grade or shade changes?

If your answers are no, consider the ABB Runnability Pack.

ABB Runnability Pack

helps to improve the runnability of your paper machines by identifying, classifying and prioritizing opportunities to improve measurement accuracy, ensure control utilization, reduce profile variability and tighten product transitions.

ABB Runnability Pack



QCS Performance Service

automatically analyzes control utilization, sensor stability, and product variability, and

identifies, categorizes and prioritizes opportunities to improve measurement and control performance so that papermakers can make more of a better product at less cost. QCS Performance Service uses non-stop data collection and analysis to transform raw process data into actionable information.



QCS Transition Service

identifies, classifies and helps prioritize opportunities to improve grade and shade transitions. Data are

gathered from the QCS during grade and shade changes, then the data are classified based on Key Performance Indicators (KPIs) to provide a list of issues that may negatively affect grade and shade changes. KPIs are prioritized based on severity, process area, criticality and/or financial impact.



ABB ServicePort

is a secure, remote-enabled service delivery platform that allows users to view, scan and track Key

Performance Indicators (KPIs) to ensure maximum performance of equipment and processes, resulting in higher operational efficiency. ServicePort distills expertise ABB built over decades of equipment and process support into bundles of automatic services which are delivered efficiently on a global basis.

Option: Reliability Package

- Loop Performance Monitoring Service
- Loop Tuning Accelerator Service
- Loop Performance Workbench Tools
(see Reliability Package brochure)

Runnability case studies



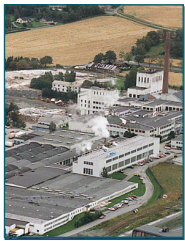
Amcor, Australia

Amcor, one of the world's largest packaging companies, realized that through constant use, automatic control may deteriorate over time and negatively affect production and quality. So they contracted with ABB for QCS Performance Services and reduced sheet breaks, increased throughput, improved quality, and saved raw material. These services contributed to record production of 2,570 tons over forecast.



Indian Paper Mill

When mill managers saw what ABB Advanced Services could do for them, they contracted for Loop Performance Monitoring and QCS Performance Services powered by ServicePort. The services are used to diagnose critical issues, including control output saturation, over control, slow control, signal noise and process disturbances. After control loops were tuned, process variability reduced dramatically.



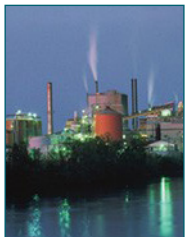
Scandinavian Paper Mill

When mill personnel discovered that moisture variations had suddenly increased in the paper produced by a new paper machine, they turned to ABB to help find the root cause of the problem. With QCS Performance Services, ABB helped to identify the source of the moisture variation increases, which helped to get production back on track, decrease product rejects, improve runnability and cut costs.



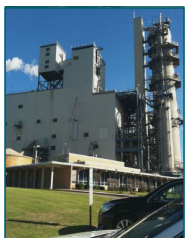
Southeast Asian Paper Mill

With ABB Performance Services powered by ServicePort, the mill measurably improved equipment and process performance: the LV Drives Performance Service identified issues that improved drives performance; the Loop Performance Monitoring Service helped to improve fiber stability, refiner stability, and paper machine runnability; and the QCS Performance Service helped to improve product quality.



US Corrugated, South Carolina, USA

As this containerboard mill adapted to meet changing market conditions, managers wanted cost-effective ways to receive advanced services that would streamline operations while delivering quality product. As a user of ABB advanced services, the mill pioneered remote-enabled delivery of QCS Performance Services and improved fiber and refiner stability, paper machine runnability and product quality.



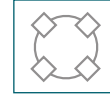
US Paper Mill

To help operate their paper machines, the mill has employed ABB Quality Control Systems (QCS) to help achieve optimum production and quality levels. With the instant data alerts provided by QCS Performance Service, the mill immediately learned of and mitigated a problem that could have cost the company \$100,000 in lost production.

Other Performance Services powered by ServicePort



Cyber Security
Monitoring Service



Harmony
Performance Service



Hoist Performance
Monitoring Service



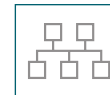
Loop Performance
Monitoring Service



Loop Tuning
Accelerator Service



LV Drives
Performance Service



System 800xA
Performance Service

ABB Inc.

Process Automation Service

579 Executive Campus Drive

Westerville, OH 43082-8870

Phone: +1 614 818 6300

E-Mail: automation.service@us.abb.com

www.abb.com

