Performing unnecessary maintenance can be costly. The same applies when acting too late. Take informed decisions at the right time.

**ABB Ability™ Condition Monitoring for belts**

- Avoid unplanned downtime of conveyor belts
- Reduce maintenance costs
- Remove people from dangerous areas
- Optimize belt reliability and lifetime
ABB Ability™ Condition Monitoring for belts provides information on the failure potential of conveyor belts, enabling a reliable maintenance time frame for planned action.

Don’t play with the health of your conveyor belt
A damaged belt can cause huge production and time losses within a plant. In general, the condition of conveyor belts is determined by physical/visual inspections carried out at regular intervals together with systematic preventive maintenance interventions.

However, it is common for failures to occur between inspections, sometimes causing significant loss of production. Continuous monitoring of belt health, generating alarms and warnings indicating deterioration, enables maintenance personnel to rectify the cause of the problem and prevent failures, thus increasing belt life and reducing costly unplanned downtime.

Stay ahead and take timely decisions
ABB Ability™ Condition Monitoring for belts is a flexible platform that collects and tracks data from the conveyor belt to offer a complete overview of the asset’s condition, providing information about the failure potential, thus enabling planned and timely action.

Move from preventive to predictive maintenance and take only necessary corrective actions enabled by real-time monitoring of the actual belt performance. The actual equipment condition is continuously assessed. You can plan necessary maintenance only when certain indicators give the signal that the equipment is deteriorating, and the probability of failure is increasing.

The technology is based on sensors installed in strategic points of the conveyor belt, specifically designed for harsh environment, to monitor its health conditions.
Get real time information for corrective and necessary actions
A flexible platform offering intuitive functionalities

The solution provides high value added for fault trend analysis, enabling an accurate maintenance window for a planned intervention based on the real conditions of the equipment. KPIs can be customized, based on customer needs or pain points.

Conveyor operations manager: “My team can consistently catch misalignment or speed issues online, long before failure, and avoid falling material, energy waste, excessive belt wear, rupture or fire.”
3) Optimize the maintenance strategy:
- Do the maintenance when it is really required
- Enable a precision-maintenance approach
- Support the maintenance team with daily decision-making process
- Access to high level expertise

4) Reduce maintenance and production costs:
- Reduce and speed up time for troubleshooting
- Reduce unplanned shutdown
- Optimize energy consumption due to reduction of friction on falling/damaged and misaligned rollers
- Predictive and corrective actions
- Automated diagnostic tools

1) Improve the safety and quality of the working environment:
- Replace human-based inspections on conveyors
- Prevent unnecessary people exposure to hazardous areas due to precision-maintenance approach
- Reduce catastrophic unplanned failures
- Reduce falling material from the conveyor due to earlier identification of misalignment/slipping control of the belt
- Reduce sound emissions due to misaligned belt

2) Improve the production throughput:
- Speed up the detection of abnormal operation condition
- Reduce time to recover from unplanned, heavy and long downtime with anticipated corrective actions

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Through a customized service agreement, ABB experts can help design your asset management strategy, identifying relevant KPIs, providing training, technical assistance and periodic reports.