



BeltGard

CONVEYOR BELT SCANNING & REPORTING

The **Almex BeltGard Systems** uses MFL technology to provide an advanced non-destructive belt scanning system that can determine cable damage, splice layout, splice deterioration and corrosion in any steel cable belting.

BeltGard uses rare earth magnets that magnetize the steel cables within the conveyor belt and the sensor head and then a high-speed processor reads the magnetic flux from the damaged/cut/corroded cables.

BeltGard works for any steel cable belt manufacturer and any belt thickness or belt speed. The system provides alerts based on various tolerance points set to provide a Non-Destructive Test (NDT) solution and early warning of any potential belt failures.

Two Optional Levels of Security

BeltGard 1.0 is an on-site, scan-on-demand service run by Almex technician. Almex Staff will visit your site and run a scan on the belt and provide a detailed report of the findings.

On-Demand is an ideal introductory scanning solution for assessing belt damage and risk of future issues.

or

BeltGard 3.0 is the permanently installed version with high speed on board processor that provides real-time high-speed continuous scanning.

Command constantly compares the historical scan to current events to detect events in real-time and prevent catastrophic failures.



BeltGard Features:

- **"BeltGard 3.0"** Continuously monitors every revolution and compares to baseline.
- On-Demand automated reporting of all events seen within the conveyor system
- Signals: Watchdog/health, Alarm & Trip
- Ability to email reports weekly/daily
- The system provides several options for integration into the mine PLC through dry contacts, relays, and volt free interface
- Automated belt "parking" to allow specific events to be placed within a maintenance bay for inspection
- Password protection and usernames
- Customizable reports generated upon request
- Damage events within last 24hrs etc.
- Operating temperature: -40 to 70° C
- Cellular modem for remote connectivity