



BeltGard
"Scan-On-Demand"

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 Scan-On-Demand is an on-site service run by Almex technician. Almex Staff will visit your site and run a scan on the belt and provide a detailed report.

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

or

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

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



BeltGard Commander

Features:

- 24/7 monitoring
- Monitor conveyor belt for damage
- Monitor splices for damage
- Easy to use graphical user interface
- Real time charting of data
- Dashboard
- Define thresholds for warnings and alarms
- Receive emails for warnings and alarms
- Daily PDF report of damage to belt and splices
- Belt stopping at repair station to inspect damage
- Application can communicate with third party PLCs
- Remote monitoring available from Operations Centre



BeltGard Belt Scanning & Reporting

SAMPLE SCREENS



BeltGard
"Commander"

BeltGard

Start
Record
Shutdown
Recording
00:00:00
Abort
Sensor Data
Left 1.8
Center 0.0
Right -1.8
Encoder
Request Shutdown
False
Zoom Level
Baseline
Detection Settings
Splice Summary
Belt Operations
Options

BeltGard

3.0 — Left — Center — Right
2.4
1.8
1.2
0.6
0.0
-0.6
-1.2
-1.8
-2.4
-3.0

Splice 2 Splice 3

00:00:10 00:00:20 00:00:30 00:00:40

BeltGard

Belt name: Enlow1056
Belt length (ft): 15393.60
Number of sections: 18
Current section: 5
Section length (ft): 965.65
Completed revolutions: 0
Belt speed (ft/sec): 13.19
Time per revolution: 19:26
Section completed (ft): 852.38
Belt completed (ft): 3061.22
Rundown distance (ft): 0.00

Damage Events:
Existing Damage:
Number of warnings: 0
Number of alarms: 0
Total: 0
New Damage:
Number of warnings: 0
Number of alarms: 1
Total: 1

Belt Map

18 12 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

Belt

Belt Section 4

Metrics Damage Events Splice Events

	Lateral Position	Start Distance (feet)	Voltage	Estimated Cords
^ Left				
Left	777.59	0.1123		
^ Center				
Center	25.18	0.1172		
Center	646.17	0.1367		
Center	820.21	0.1172		