



# CBM – Remote Monitoring

## Maximising the return on your assets

### BUSINESS CHALLENGE

Obtaining the maximum value for every maintenance dollar you spend has always been the greatest challenge for companies needing to maintain valuable physical assets.

The primary purpose of the “cbmRemote” Monitoring system is to detect steel cord or carcass damage and splice irregularities, by means of non destructive testing during the belts normal operation, at anytime, without the need to stop the conveyor belt or have personnel on site.

### SOLUTION

With shrinking maintenance windows and limited downtime access, CBM has developed a system to minimize interruption while scanning all forms of conveyor belting.

The “cbmRemote” system’s dedicated sensing equipment is permanently fitted to the conveyor and accessed using a data connection. This allows CBM to interrogate the target belt remotely as often as is necessary to achieve a satisfactory level of monitoring.

There is the added comfort of being able to call for a scan at any time, should a breakdown, accident or similar event occur. CBM’s Engineer’s analyse and generate comprehensive reports using this data.

The data is captured via intelligent software on site then sent remotely via data connection to be inspected by engineer’s for anomalies.

Damage can be identified immediately for notification and inspection. This is achieved through comparison against the previous data capture.

Periodic interrogation of the conveyor is useful in monitoring on-going cord damage, the condition of splices (new & old) and to advise the necessity of section replacement.

This CBM System is suitable for both surface and underground applications.

### WHY CHOOSE CBM

#### ➤ Recognition

Founded in 1980, CBM is a worldwide leader in Conveyor Belt Monitoring. CBM has a long history of R&D and bringing to market beneficial technologies.

#### ➤ Knowledge & Expertise

Technical knowledge and constant training of our staff and distributors, ability to provide timely targeted information, are strengths appreciated by our clients.

#### ➤ Independence

CBM is completely independent of the conveyor belt manufacturers and our systems are designed to work on all manufactured conveyor belts, of any speed and all material types.

This ensures safety and security for the companies that we service.



Partner of Choice

### RELATED SERVICES

- CBM – Longitudinal Rip Detection
- CBM – Vision & Profile Monitoring
- CBM – Reporting
- CBM – Steel Cord Belt Scanning
- CBM – Fabric Belt Scanning
- CBM – Conveyor System Inspection
- CBM – Cover Thickness Testing
- CBM – Longitudinal Thickness Testing

## CASE STUDY



One of the belts that we currently remote monitor is in the southern NSW coalfields.

CBM scan this belt on a monthly basis to ensure that no new areas of cord damage or splice irregularities have occurred since the previous scan.

In this case, we were contacted by this colliery, as one of their belts had sustained some significant cord damage to cords 3, 4 and 5.

This would normally be a mid order event. The fact that these edge cords were damaged raised concerns as this would make the belting more prone to further deterioration and a loss of belt edge tension and integrity.

After repairs, CBM resumed remote monitoring the belt every 12hrs for 5 days to discern if any change was occurring in the damaged area.

After 5 days and no evidence of change the scanning frequency was extended to weekly then resuming once a month, when comfortable with the damaged areas integrity, stability and resistance to change.

This situation highlights remote monitoring's effectiveness to both determine areas of damage and the flexibility to monitor these areas consistently during these types of emergency situations.

## OUR APPROACH

Clear, concise, easy to read and above all, rapid indications regarding conveyor belt safety and durability.

Provision of the most comprehensive condition monitoring of conveyor belts and systems in the world today.

Non Contact / Remote Monitoring / Minimal Ongoing Costs / Operating In All Conditions

## FAQ

### Do I need to have all my Belts Scanned?

Not at all, we only implement in a way that is going to suit your companies' requirements

### What are the key benefits?

- Detection of splice failure, damaged and broken steel cords
- Detection of fold sequences, carry & pulley cover damage
- Effective maintenance & budgetary planning

### Who owns the Data?

You do – we keep a back up of that data and it forms part of the database for our engineers to analyse and make comparative recommendations. You receive regular reports and recommendations at a frequency that best suits your site operations.

### Do I have to shut down the belt for the scan?

The scanning occurs while the belt is operating and available for production



## CONTACT

For details about this service, please contact CBM

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## FOR MORE INFORMATION

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