



# CBM - Conveyor Belt Monitoring

## Maximising the return on your assets



### ABOUT CBM

CBM is an International Organization based in Sydney, Australia, that has been condition monitoring conveyor belting since 1980. During that time CBM has been able to develop the most comprehensive conveyor belt condition monitoring program available in the world today.

**Our Aim –**

*“To Extend The Safe Working Life Of All Conveyor Belting”.*

CBM now uses the most up-to-date reporting techniques available. Data from your belt is stored digitally and over time becomes part of a database. This database is carefully analysed by CBM’s professional technicians, using intelligent propriety software, from which conclusions and recommendations are made. These are passed on to you either on an “exception only basis”, or in the form of a comprehensive written report – whichever you prefer. The written report format has been very carefully structured to make it easy to read, understand and to act on. The reports are available as, hard copy, or in a variety of electronic formats.

### CBM PARTNERS STATE

A worldwide leader in Conveyor Belt Monitoring. with millions of kilometres of belt monitored. CBM has a long tradition of R&D and bringing to market beneficial technologies.

Technical knowledge and constant training of staff and distributors, ability to provide timely targeted information, are strengths that we appreciate.

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

### NEW AT CBM

#### SYSTEMS:

#### **New & Available To Order**

Longitudinal Rip Detection, Vision & Profile Monitoring System – installed and operational in the Wollongong area NSW – where successful field trials have occurred.

#### PEOPLE:

We are growing – in the last 6 months we have added to our staff;

Nelson Londono	Field Technician
Harry Ballard	Field Technician
Lara Hasell	Administration Assistant
Zoe Sun	Report Writer

#### MARKETS:

We have recently added distributors in the Eastern Mediterranean Area, China and Brazil.

### OUR SERVICES

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

Partner of Choice

## THE NEED

There are generally three types of conveyor belting used in the materials handling industry –

- Steel cord belting, which is used for long and/or high-tension applications and utilises high strength steel cords as its internal carcass. This type of belting is manufactured to each application and as such is expensive to purchase and requires a long manufacturing lead-time.
- Fabric reinforced belting which is used in general materials handling which has an internal carcass made from several layers of fabric. This belting tends to be less expensive to purchase and easier to source as it is normally of a standard size and strength rating.
- Solid woven belting used mainly in underground mining applications, which utilises a man-made woven mat impregnated with PVC as its carcass. This belting can be difficult to source for some applications and is similar in price to fabric belting.

Please Note: There are conveyors which do not conform to the above statements.

In order to understand the market for belt condition monitoring it is important to understand the typical modes of failure for the above belting types.

## THE SOLUTION

The aim of the Condition Monitoring Service is to extend the safe working life of all conveyor belting. This is achieved through careful monitoring of the belt's deterioration with use and the orderly repair or removal of events which could lead to premature belt failure.

Specific elements monitored include:

- Cover condition and wear, including remaining cover and wear patterns.
- Carcass condition to ensure that a safe and satisfactory level of internal strength and integrity are being maintained under all operating conditions.
- Splice condition to ensure that splice manufacture and performance compliment the tension capability of the parent belting.

CBM is also used as a supplementary Quality Assurance and Risk Management tool in the overall belt condition and splice construction processes.

## VALUE OFFERING

The cost of applying any effective condition monitoring technique to high capital cost plant is small in relation to the achievable benefits. In critical applications the gains can be enormous, with significantly increased "service life" and reduced or eliminated un-scheduled downtime.

Conveyor belting is NO exception.

CBM requires highly specialised equipment, techniques and experienced analysts. This is available to you as a service.

Meaning that you do not need to maintain these resources in-house, but can access this specialist knowledge only when you need it.

With the use of cbmRemote the site requirements are minimised. cbmRemote makes use of dedicated sensing equipment fitted permanently 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 also the added comfort of knowing that you can call for a scan at any time if the belting is involved in an accident or other type of event.

Effectively used Conveyor Belt Monitoring will minimise or eliminate the risk of Catastrophic Failure

## SOME OF OUR PARTNERS



## CBM INTERNATIONAL

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### ➤ FOR MORE INFORMATION

please visit:  
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