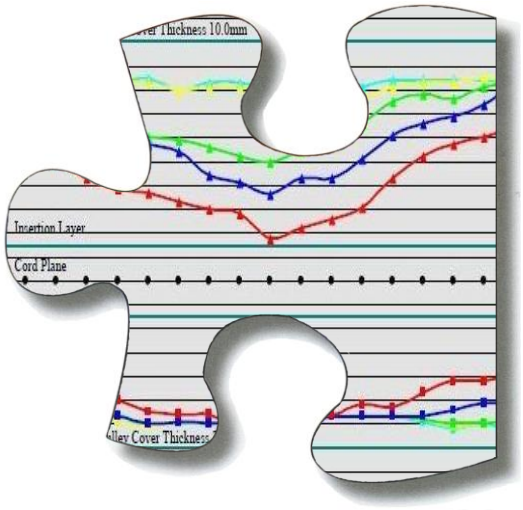
Conveyor Belt Monitoring

Services

CBM - Cover Thickness Testing

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 physical assets.

The primary purpose of Static Cover Thickness Measurements is to determine a trended wear pattern and rate of wear for either steel corded, fabric or solid woven belts. This maximizes the life of the existing belt by predicting the end of its usable life and providing a tool for effective maintenance and allowing belt changes to be incorporated into the relevant budget cycle.

SOLUTION

CBM utilise proprietary technology to determine the thickness of both covers at predetermined locations. Each static thickness analysis gives a clear indication over time of the belts wear profile which allows two main benefits.

- Firstly, knowledge of wear patterns help to determine such problems as dropped skirts, tracking issues, product build up beneath the return path (causing excessive wear) or load point impacting.
- Secondly, forecasting end of belt life enables multiple repair options such as turning over of belts or realigning of load chutes.

These two benefits help to *extend the safe working life of the conveyor belt.* Cover thickness measurements can be obtained from steel cord, fabric and solid woven belts.

The thickness of both the carry and pulley covers are measured and graphed at predetermined locations along the belt. This gives a cross sectional view of the belt and the wear profile at that specific location.

Based on these static thickness measurements, CBM create a service life prediction for the belting at its current rate of wear.

Elastomer hardness measurements are performed at the same locations as the cover thickness.

These locations are marked, allowing subsequent measurements to monitor the advancement of hardness in the belt covers, with age.

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 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 – Remote Monitoring

CBM – Longitudinal Thickness Testing

Extending The Safe Working Life Of All Conveyor Belting

CASE STUDY

A Wollongong steel producer has been using CBMs services for nearly two decades.

CBM carry out static cover thickness analysis on steel cord and Fabric ply belts at this Wollongong site.

With our Non Destructive testing equipment and technologies, coupled with a scheduled testing program, we have been able to provide the client with detailed reports on the rate of wear and end of serviceable life for each belt.

To this end we were able to assist them with one of their stacker belts recently, where we discovered that this particular belt was displaying an increased rate of wear.

Together with the client we adjusted the scheduled testing frequency on this belt to get a better indication of the accelerated wear and consequent change to the belts end of serviceable life.

Thus enabling them to have the replacement delivered on time, with little disruption to their production cycles.

OUR APPROACH

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

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

FAQ

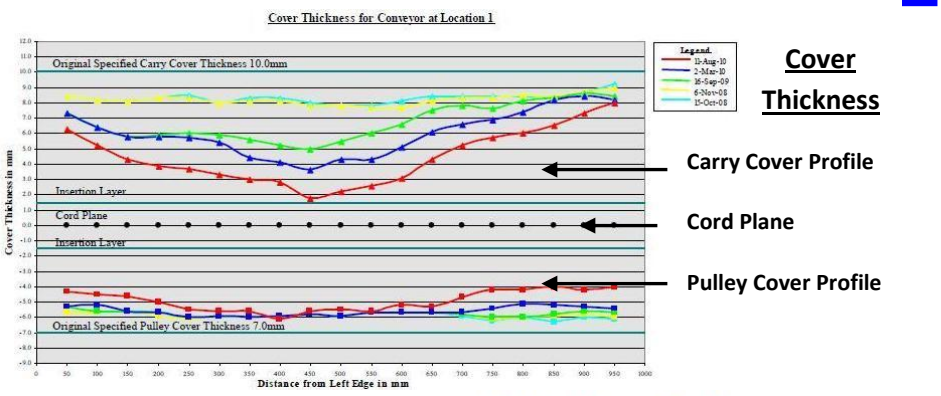
Do I need to have all my Belts Cover Thickness Tested?
Not at all, we only implement in a way that is going to suit your companies' requirements

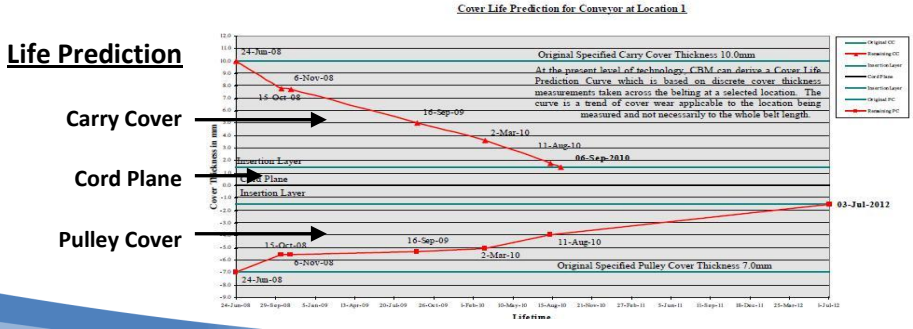
What are the key benefits?

- Budgetary Planning
- Maintenance Planning
- Efficiency Improvements

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

Do I have to shut down the belt for the scan?
Thickness measurements are performed while the belting is stopped and isolated. This usually occurs during a scheduled maintenance day or other suitable window.





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