

CONVEYOR HEALTH CHECK

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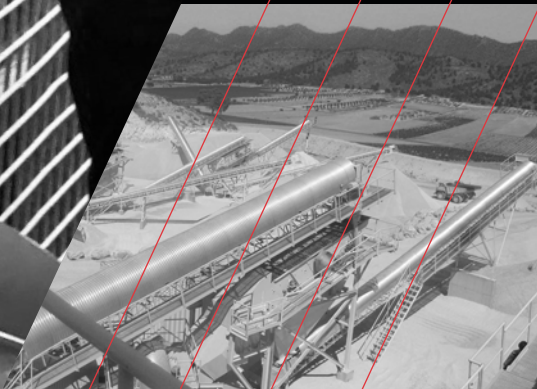




About Us

With 40 years of experience, Kinder Australia has an unsurpassed reputation as a market leader in the bulk handling industry. It has a proven history of providing a comprehensive range of beyond expectation, high performance, reliable and compliant conveyor componentry.

These engineered bulk material handling solutions resolve immediate problems effectively and create opportunities for further measurable gains in production and efficiency.



Conveyor Health Check

Tailored to each operator's specific requirements, a full or component conveyor health check is offered. The health check is aimed at improving performance, identifying potential safety hazards, environmental risks and includes detailed reports with practical and actionable advice.

The health check begins with a pre-consultation and opportunities to discuss specific needs, expectations and problems.

The on-site health check is conducted by 'walking the belt', inspecting its operation and noting down problems for later attention. During the health check, potential hazards and performance issues are observed, identified and recorded.

The trained Kinder specialist brings a fresh set of eyes to the health check. Performance or safety issues are often missed because of over-familiarity with a specific conveyor.

Photographs/videos are taken, and detailed notes of the problems observed. The raw data will be collated, form the basis for future reporting and made available to the business to assist maintenance crews, educate workers and better prepare operators for any potential hazards they may encounter in the future.

Performance

Across all bulk handling segments, there is emphasis on increased volumes and conveyor capacities, requiring equipment to be in peak condition. The conveyor health check will identify immediate and future wear plus provide a detailed performance analysis. The health check, while not limited to, will focus on:

TRACKING/ALIGNMENT

Conduct systems health checks to ensure it has the right type of belt tracking components to suit the conveyor belt's speed, direction, trough angle and material loading. The Kinder specialist will observe any alignment problems and provide solutions to promote correct conveyor alignment.

SPILLAGE

Keeping the conveyed material on the belt, thus avoiding spillage and dust emissions is a principle function of plant productivity and safety. Without correct conveyor spillage control, site safety and dust emission are compromised.

Safety

It's vital that all conveyor operators have a stringent and rigorous safety regime in place that protects workers. While 'walking the belt' the Kinder specialist will consider factors like accessibility to emergency stop controls, structural damage, guarding and warning systems, among other things.

Environmental

Dust emissions are becoming increasingly regulated and operators who fail to monitor and implement emission controls risk being fined for non-compliance and, in extreme cases, forced to halt production.

The Kinder specialist can recommend dust control solutions, like enclosing conveyor belts, to mitigate dust emissions and reduce the environmental impact of the conveying system.

Reporting

Following the on-site health check, a detailed report tailored to the operators' specific requirements will be prepared. The report will provide practical and actionable advice to improve the performance, safety and environmental impact of the conveyor system.

Reporting will include raw data collected by the Kinder specialist during the on-site health check – field notes and photos, for example – as well as more extensive analysis of key components.

The report will provide plant managers and operators with a roadmap to better overall conveyor performance, a detailed step-by-step approach to improving safety and recommendations to reducing the environmental impact of the system.

Example of a Conveyor Health Check Report

Transfer Area

2 / 2
(100%)

Transfer Area 1

2 / 2
(100%)

Description

Inlet Shute

Action

Transfer Point Photo

Media



5A67E909-0545-4CA9-84C9-ED2B7C02F06D-video.mov

Action

Idler/Belt Support Type

Impact Idler 35 Deg 1000BW

Notes

6 Required 159 Shell, 365Face, 6205BRG. It should be noted that the Impact Frame slots and rollers are matched correctly at 14mm

Photos



Action

Conveyor 4

13 / 31
(41.94%)

Equipment No.

EAC 81

Action

Description

Stream 2 Reclaim Feeder Conveyor

Action

Overall System Photo

Photos



Action

Is Reversing

Action

Design Capacity

1100 t/h

Action

Belt Speed

3.5 m/s

Action

Media summary

270 Media files



Transition Type

Transition Idler 10-30 1000 Belt

Refer Ddrawing ITT-1000-152-6205



Photo 12

Photo 13

Transition Length

1200

No. of Transition Idlers

1

Condition of Transition Idlers

Good

It should be noted that the Transition Frame slots and rollers are miss matched at 14mm

Return Side Belt Cleaner

3 / 4 (75%)

Return Side Belt Cleaner 1

2 / 2 (100%)

Is a return side belt cleaner installed?

Yes

Only inside of belt

Cleaner Type

V Plough



Photo 14

Photo 15



Photo 6

Photo 7

[DCBE9DBD-DD30-4C07-BEBE-68D6909ECD88-video.mov](#)
[4887CC08-68A5-4041-B151-E5204FCB913D-video.mov](#)

Is the belt tension set correctly

Yes

Other Comments

Tail Pulley

1 / 1 (100%)

Pulley Photo



Photo 8

Photo 9

Conveyor

90 / 151 (59.6%)

Conveyor

90 / 151 (59.6%)

Conveyor 1

29 / 37 (78.38%)

Equipment No.

EAC 52

All of the information below is also relevant for EAC 42

Description

Tripper Conveyor

Overall System Photo



Photo 2

Photo 3

Is Reversing

Design Capacity

1100 t/h

Belt Speed

3.5 m/s

Material Type

Coal

Material Lump Size

75mm

Belt Details

3 / 3 (100%)

Belt Width

1000

Belt Type

TBA

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