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LOOPLESS RIP DETECTION SYSTEM

SMART CONVEYOR PROTECTION.
NO EMBEDDED LOOPS.

Smarter Design
No need for embedded loops, less belt prep, faster deployment.

Rapid Response
Instant detection and shutdown signals to reduce belt damage.

Seamless Integration
Easily retrofitted to work standalone or with existing systems.

Proactive Rip Detection.
Built for Harsh Conditions.

The Loopless Rip Detection System is designed to detect belt rips the moment they occur, without the need for embedded loops or RFID tags. This reduces installation time, eliminates belt modification, and streamlines commissioning across complex or large-scale conveyors.

It's a rugged, intelligent system that works in real time to protect your belts and assets. With multi-sensor integration and a smart alert system, it's ideal for operations where uptime, safety, and belt integrity are critical, including mining, processing, and bulk handling.

SCAN TO READ THE FULL CASE STUDY

REMA TIP TOP AUSTRALIA
102 Kurnall Road Welshpool WA 6106
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www.rema-tiptop.com.au

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Built for Harsh Environments. Engineered for Reliability.

SYSTEM FEATURES

- AI-assisted system analysing motor data 50 times per second
- Unlike traditional systems that monitor only fixed points, LRDS delivers real-time detection across the entire belt length, ensuring no rip goes unnoticed.
- No belt splicing, sensors, or embedded materials required
- Compatible with all conveyor types — textile or steel cord
- Compact IP67-rated unit (330 x 300 x 120 mm)
- Plug-and-play design with zero hardware maintenance
- Includes relays, Ethernet, analog output, and Modbus interface
- Supports belt widths from 600–6000 mm and speeds up to 12 m/s

OPERATIONAL BENEFITS

- Installation completed by site electrician with minimal downtime (½ to 1 hour)
- Commissioning by REMA engineers — no belt stoppage required
- Delivered complete with all sensors, guides, and documentation
- Enables immediate detection of rips and abnormalities
- Reduces long-term maintenance costs and downtime risk
- Provides energy usage insights and mass flow data
- Enhances operational visibility and system safety
- Ideal for remote or high-throughput conveyor applications

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Talk to our team today

INDUSTRY LOCATIONS

NEW SOUTH WALES

Newcastle
Lot 8 / 19 Balook Drive, Beresfield NSW

SOUTH AUSTRALIA

Adelaide

- 11 Lafitte Road, Wingfield SA 5013
- 6/16 Phillis Street, Wingfield SA 5013

QUEENSLAND

Brisbane

- 52 Wentworth Place, Banyo QLD
- Unit 18 10-12 Cerium Street, Narangba 4504 Brisbane QLD

Mackay
29-33 Maggiolo Drive, Mackay QLD

Gladstone
18 Helen Street, Gladstone Central QLD

WESTERN AUSTRALIA

Perth
102 Kurnall Road, Welshpool WA 6106

Port Hedland
41 Harwell Way, Wedgefield WA 6721

Kalgoorlie
16 Cunningham Drive, Kalgoorlie WA 6430

Bunbury
43 Halifax Drive, Bunbury WA

Kwinana
Unit 4/32 Beach Street, Kwinana Beach WA

NORTHERN TERRITORY

Darwin
Unit 2/45 Toupein Road, Yarrawonga
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