

# VIPER RIPTECH PRO 3,5 & 6 CONVEYOR MONITORS



## **RMS INTERNATIONAL** CONVEYOR BELT MONITOR & PROTECTION

### **AVOID**

- Danger to human safety
- Consequential damage
- Ancillary equipment damage
- Unplanned structural damage
- Unplanned expensive repair costs
- Unplanned production losses
- Unplanned repair times
- Unplanned downtime



# VIPER RIPTECH PRO SERIES CONVEYOR MONITORS



Based in Middelburg, Mpumalanga, South Africa, RMS International is the world's leading supplier of conveyor belt monitoring solutions, providing proactive monitoring of conveyor belt failures. RMS International Viper RIPTECH conveyor belt monitoring is an in-house design, developed, and manufacturing company for our Patented and Proven Technology globally, resolving & minimizing belt misalignment/tears/rips/ product spillages/belt breakages/product oversize / feeder automation / overlapping on bulk material conveyors.

At RMS International we don't manage your conveyor belt damage, we monitor the conveyor belt's ability to have possible damage, preventing the loss of production, reducing unplanned downtimes, preventing structural damages, and the loss of life. RMS International Viper RIPTECH units will reduce operating costs through monitoring and protecting the conveyor belt, improving safety, enhancing productivity, and increasing up-time.

**Make conveyor belt monitoring essential!**

**THE FUTURE OF MINING IS  
SAFER, SMARTER AND  
AUTOMATED**



**SAFETY AROUND  
CONVEYORS IS  
NOT NEGOTIABLE**



## **MOST CRITICAL SCENARIOS BEING MONITORED;**

1. Monitoring foreign objects penetrating the conveyor belt at the loadpoint, and the longitudinal belt tear stays in position
2. Monitoring the profile height of incorrect crusher gap sizes
3. Monitoring belt misalignment
4. Monitoring side edges for side rips caused by bad belt maintenance
5. Monitoring belt slips caused by overloaded conveyors
6. Monitoring product spillages, all in one unit

### **PRINCIPAL OF OPERATION**

The principal of operation uses the characteristics of each conveyor, monitoring the conveyor, and creates a trip or alarm once deviation is detected within a reasonable distance from any loadpoint. The conveyor will not be able to start unless the conveyor has been assessed and attended to. Once the conveyor belt has been attended to, the belt is resetted via a username and password function on the HMI, to ensure the safety to personnel, equipment and environment. The realtime data that is collected can be used for preventative maintenance in preparing for planned shutdowns. Typically one unit is sufficient after the last loadpoint of a conveyor.





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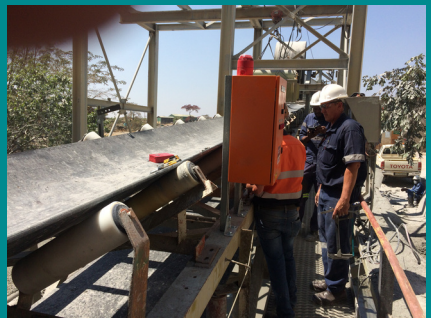
## ADVANTAGES

1. Simple to install, commission and to maintain
2. Installation time: approx 2-3 hours
3. Continuous monitoring with real-time data
4. Low cycle maintenance required
5. No special training required
6. Low initial capital outlay (Capex)
7. Low individual component replacement costs (Opex)
8. Can be fitted in small areas
9. Live data from the unit can be used for preventative belt maintenance, shutdowns, etc
10. Online belt scanning and safety interlock features, all in one unit
11. Belt width monitored - unlimited
12. Belt length monitored - unlimited
13. Belt speed monitored - unlimited
14. Monitors required - one per conveyor belt after last loadpoint
15. No magnetic sensors / loop sensors
16. Non contact high speed laser based monitoring system
17. No mechanical parts
18. Statistical information captured
19. 10" Color touch screen interface (HMI) with maintenance / engineering username password functionality
20. Can be integrated with onsite feeder systems
21. Easy integrates with client onsite PLC / Scada systems





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## TESTEMONIALS

**Pieter Du Plooy** - Software Engineer / Consultant

- "The RMS International product is excellent quality and effectiveness to protect your conveyor systems. I am witness of the money saving and quality of their service and equipment. I highly recommend RMS if you use conveyor systems."

**JUAN MORENO** - Gerente de producto en Polybandas

- "A reliable monitoring system. Easy to install, very low in maintenance ..."

**RON VAN RENSBURG** - Control Systems Engineer

- "We recently started using the Viper RipTech pro 5 series that monitors conveyor belts for rips and tears, and I couldn't be happier with its performance. The device has proven to be a game-changer in the way we monitor and maintain our conveyor belts.
- Before, we would have to perform manual checks every few hours, which was time-consuming and often resulted in missed tears. With the new device, we receive alerts in real-time when a rip or tear is detected, allowing us to respond quickly and access the damage.
- Not only has this device increased our efficiency, but it has also improved the safety of our operations. Now, with the device monitoring our belts 24/7, we have peace of mind.
- Overall, I would highly recommend this device to anyone looking to streamline their conveyor belt monitoring process. It has been a valuable investment for our company and has made a noticeable difference in our operations.."

**ERNST DU PLESSIS** - Engineering Manager - LMDC - Diamonds - Lesotho

- "Proven in Lesotho with diamond plant equipment control and in particular with conveyor monitoring & protection."





# VIPER RIPTECH PRO SERIES CONVEYOR MONITORS



## OFFICE

### Information

[info@renpromining.co.za](mailto:info@renpromining.co.za)

### Sales

[sales@renrpmining.co.za](mailto:sales@renrpmining.co.za)

### Web

[www.info1232103.wixsite.com/rmsinfo](http://www.info1232103.wixsite.com/rmsinfo)

### Linkedin

<https://www.linkedin.com/in/rms-international-15b4b229/>

### Mobile

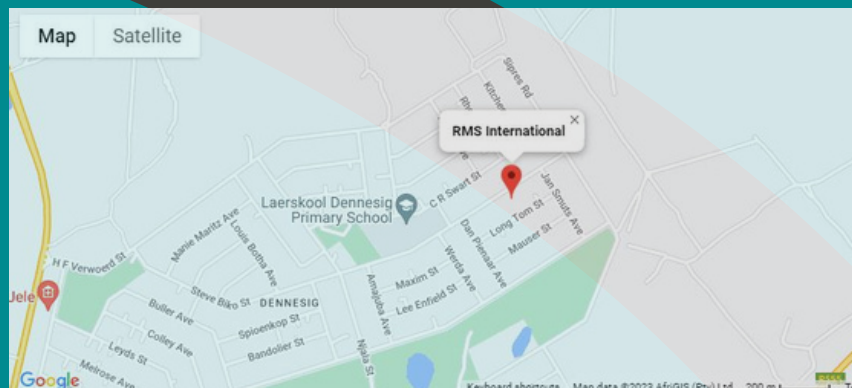
+27 72 819 5900

### Managing / Founder

Des van Rensburg

PMP-Unisa

[des@renpromining.co.za](mailto:des@renpromining.co.za)



## ADDRESS

Steve Biko street 100, Dennesig,  
Middelburg, 1050, Mp

