



RCMIN CONVEYOR BELT ARRESTOR

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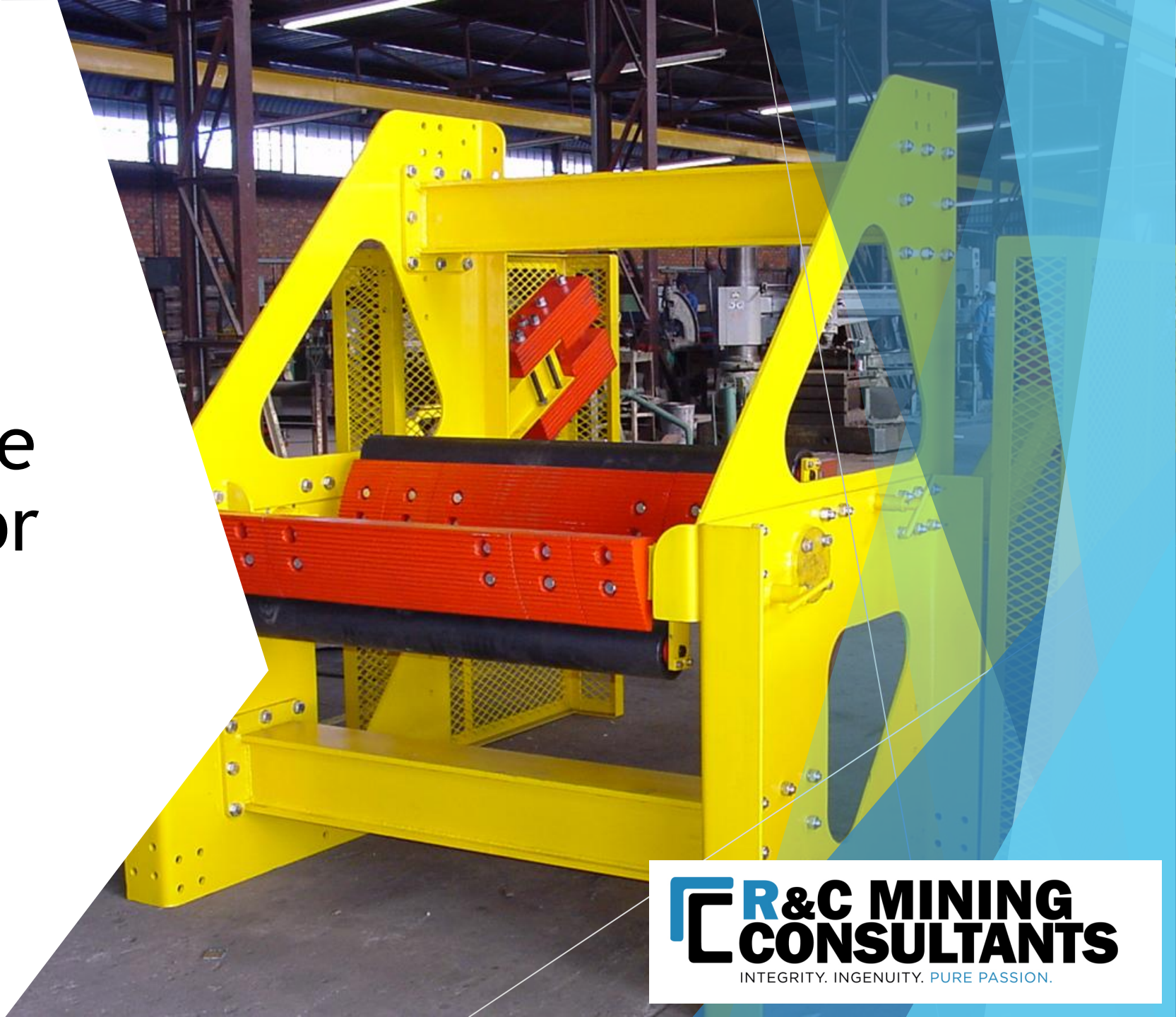
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# Overview of the RCMIN Conveyor Belt Arrestor



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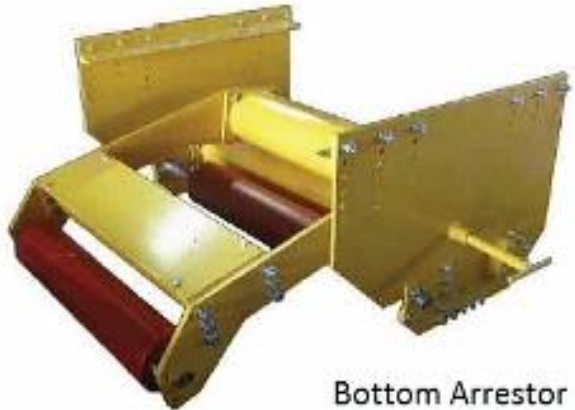
Top Arrestor

The RCMIN Conveyor Belt Arrestor has been designed and developed to catch any incline conveyor belt that breaks or snaps due to normal wear and tear on incline conveyor systems.

The RCMIN Conveyor Belt Arrestor traps both the top and bottom conveyor belt which prevents it from running back down the incline.

Both ends are then in close proximity to facilitate ease splicing. There is a Heavy-Duty option where the applicable forces indicate we need additional strength in the Arrestor, typically where the reaction forces exceed 600KN.

The RCMIN Conveyor Belt Arrestor is locally designed and manufactured to the highest standards (CSIR and SABS).



Bottom Arrestor



# Overview of the RCMIN Conveyor Belt Arrestor



Safety Guard



Lifting plates for easy installation



Lock-out Pin



Return Belt Activated

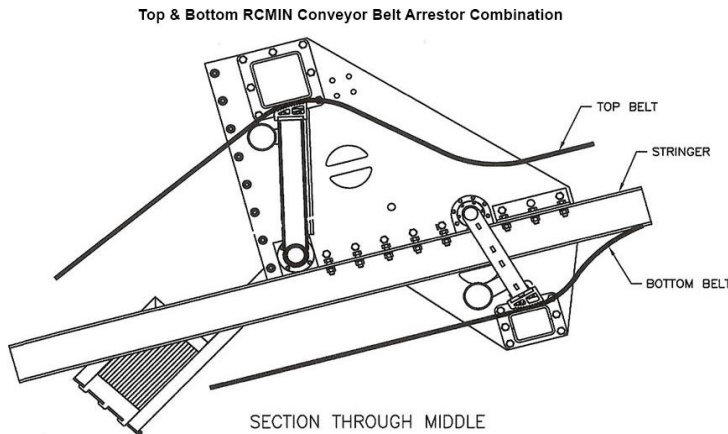
# Benefits of the RCMIN Conveyor Belt Arrestor

The RCMIN Conveyor Belt Arrestor is robust and practically maintenance free.

It reduces downtime from 2 to 3 days to as little as 4 hours. It enhances safety and productivity of Incline Conveyors by up to 90%.

The RCMIN Conveyor Belt Arrestor also reduces the risk of injury or fatalities. Material is not lost, it can stay on the belt while repairs are made. A runaway belt can cause serious damage to the surrounding structures which can be limited by the timely arresting of the belts.

A recent study conducted by the \*Safety of Mines Research Advisory Committee concluded that historic causes of fatal accidents on incline conveyors was due to: “Sufficient stopping devices not installed along the length of the belt.”



# Features of the RCMIN Conveyor Belt Arrestor

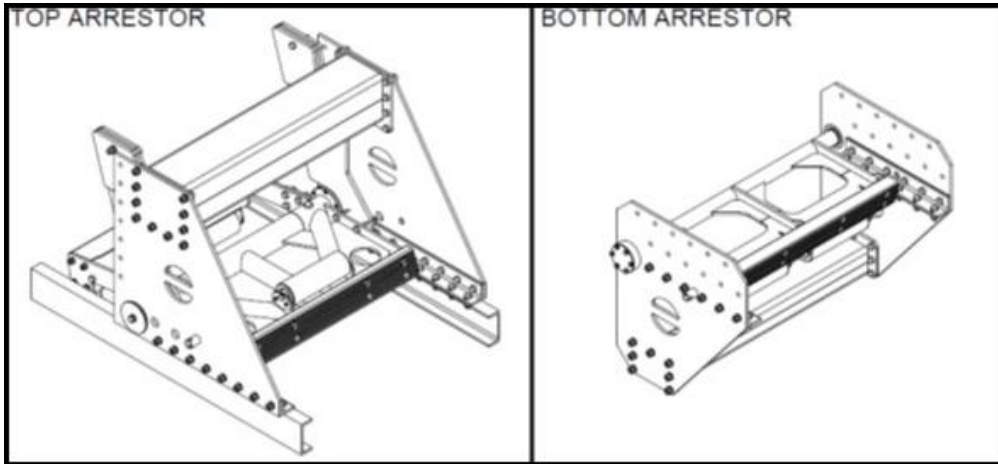
The RCMIN Conveyor Belt Arrestor reduces the total cost of ownership.

It will fit any incline conveyor belt width and is SABS and CSIR approved. The RCMIN Conveyor Belt Arrestor works on any incline from 9 to any degree incline. It can also be installed anywhere along the length of the belt.

It is designed and manufactured for harsh mining and corrosive environments. The unit is 100% mechanical and activates due to loss of tension of the Conveyor Belt.

The RCMIN Conveyor Belt Arrestor will catch any snapped belt within seconds of breaking. It is easily reset after it has been activated and can be used repeatedly.

Secondary safety devices can be linked to the RCMIN Conveyor Belt Arrestor.



# Installation of the RCMIN Conveyor Belt Arrestor



The installation of the RCMin Conveyor Belt Arrestor typically takes 12 hours to complete for a top and bottom Arrestor.

The RCMin Conveyor Belt Arrestor is customized for each mine as no two Conveyor Systems are the same.



Our skilled technical team will advise and install the RCMin Conveyor Belt Arrestor in the optimal position to provide the greatest possibility of catching a broken or snapped conveyor belt.



# Site References



The RCMIn Belt Arrestors sold locally include Platinum, Gold, Iron ore, Chrome and Coal.



- SA Chrome
- Goldfields - Kloof
- De Beers Group - Jwaneng - Botswana
- Harmony Gold - Elandsrand
- Sibanye Stillwater:
  - Khusuleka Mine
  - Siphumele Mine
  - Bathopele Mine
  - Hossy Shaft
  - Karee 3 Shaft
- Minopex K1 & K2 Plant
- Amandelbult 16 Shaft
- Siyanda Bakgatla:
  - Spud Shaft
  - Mortimer Concentrator
  - Richard Shaft
  - Union Declines
- Impala 16 Shaft
- RPM Bleskop
- Hernic Ferrochrome
- Hernic Mooinooi

# Site References



CSIR - Test Certification



Anglo Platinum - Boschfontein



Harmony Gold - Elandsrand



Goldfields - Kloof

# Contact Details

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\*Research Agency:

Anglo Technical Division commissioned by SIMRAC

Research Document: 2001 GEN 701 Final 13 Aug.pdf

Risk Assessment: Simrac Conveyor Belt Risk Assessment.xls