ANTI-RUNBACK ROLLERS

Technologies that make the world go around

The Melco Anti-runback conveyor roller is a uni-directional roller, fitted with a patented internal device designed to prevent an inclined conveyor from running backwards in the event of a belt break. Fitting it will

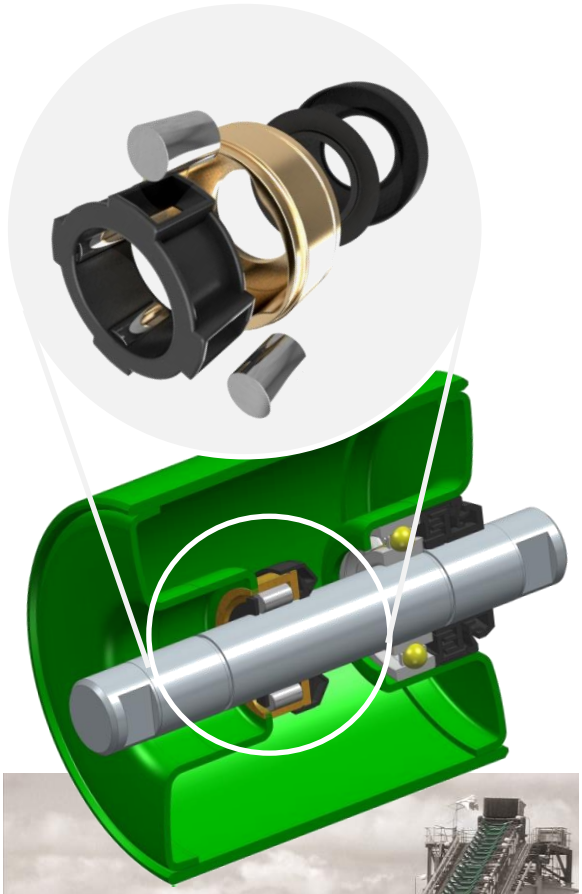
- Reduce downtime
- Minimise the risk of injury to personnel
- Prevent equipment damage

Fitting the internal patented mechanism turns a standard roller into an anti-runback roller. When the conveyor is running in the correct direction, this mechanism is disengaged and therefore does not wear out or add friction or running resistance. In the unlikely event of a belt snap, the belt reverses direction which activates the mechanism, locking the roller. The anti-runback rollers are effective in stopping a snapped belt when they operate as a system and are installed in the correct quantity and installation pattern

The operating specifications (especially incline angle of the conveyor) determines the number of anti-runback rollers required on a specific conveyor. This calculation is based on detailed studies and considers worst case scenarios with the appropriate safety factors.

Anti-runback rollers can only be fitted on the carry side of a conveyor as on the return side a snapped belt will continue to run in the same direction and therefore will not lock.

The anti-runback roller is the same size as a conventional roller and so can easily be retrofitted into existing frames.

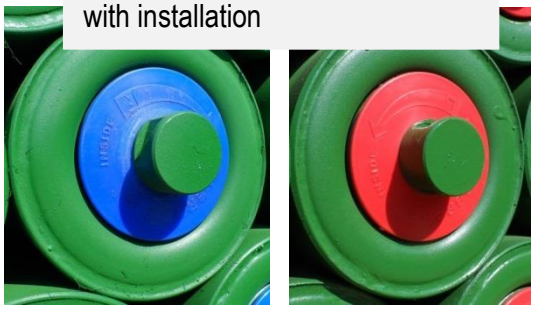


SIZES

All diameters of rollers can be fitted to be anti-runback in the following shaft series 25, 30 and 40 mm

Suitable for steel and HDPE Supreme rollers

Red and blue identification tags indicate left and right to assist with installation



South African Mine Health and Safety Act 1996

Regulations relating to Machinery and Equipment – Chapter 8 (1 Feb 2008)

8.9(1) (d) - the employer must ensure that the driving machinery of the conveyor belt installation is stopped should the belt break, jam or slip excessively;

8.9(1) (j)- the belt of any conveyor belt installation cannot run away.

8.9(3)-The employer must take reasonably practicable measures to prevent persons from being injured by material or mineral falling from a conveyor belt installation, which measures must include the fitting and use of one or more devices to prevent run-back or run-on; when such conveyor belt installation is stopped.

8.9(5) - The employer must take reasonably practical measures to prevent persons from being injured as a result of the breaking, misalignment or damage of a conveyor belting due to any mineral, material or coal dust accumulating on or around the moving parts of any conveyor belt installation.

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Complete the information below or request Melco to assist with survey of inclined conveyors.
Recommendations will be made of number of anti-runback rollers required and the advised installation pattern

Operation..... **Contact**.....

Phone..... **Email**.....

Conveyor number							
Product conveyed							
Belt length along conveyor incline	(metres)						
Angle of conveyor belt incline	(degrees)						
Total lift	(m)						
Average belt speed under load	(m/s)						
Maximum system capacity	(tons/ hour)						
Conveyor belt width	(mm)						
Idler spacing	(metres)						
Number of idlers per idler frame	(units)						
Idler roller outside diameter	(mm)						
Idler roller face length	(mm)						
Idler trough angle	(degrees)						
Roller material (Steel or HDPE)							

Please complete form and scan to **conveyors-za@rulmeca.com** for assessment and quotation.