

Maximising Belt Conveyor Productivity

Flexco Polymer Rollers are lightweight, high strength, corrosion and abrasion resistant. They are highly effective workhorses for the dirtiest, most abrasive environments, and are suitable for the majority of corrosive applications.

Key Features and Benefits

- Light construction ensures low idler rotating mass values and allows for safe and easy handling.
- Advanced polymer material blend allows renegade material to be shed from the roll making it virtually self cleaning.
- Similar load support rating as that of equivalent steel rollers.
- Polymer shell construction offers improved impact resistance compared to steel rollers, leading to a prolonged service life.
- Impact resistance properties of roller improve belt life.

Performance

Reduced Idler Rotating Mass

Lightweight shell construction considerably reduces the rotating idler mass on a conveyor installation.

Breakaway Mass

The bearing sealing arrangement and housing construction results in reduced breakaway mass values.

Noise Reduction

50% reduction compared to steel rolls.

RFID Ready

Rolls can be fitted with RFID (Radio Frequency Identification) tags in order to allow for web-based performance and tracking.

Construction

Lightweight

Ultralightweight construction makes the unit relatively easy to handle manually on installation. Flexco rolls have a reduced idler rotating mass compared to steel rollers.

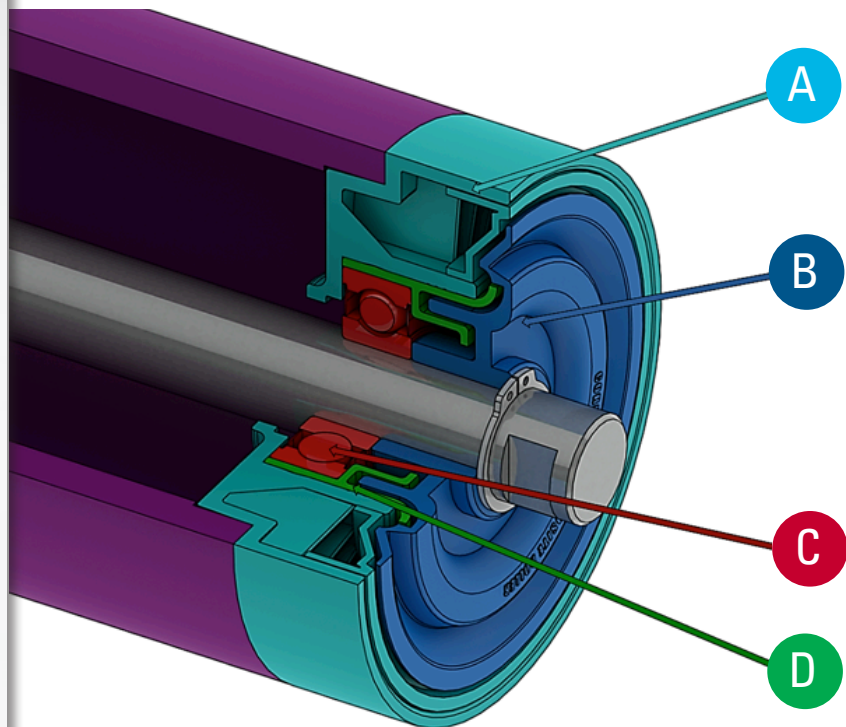
SANS 1313

Flexco rollers are manufactured generally to the envelope sizes noted in the South African National Standard.

Belt Friendly

Flexco rolls are gentle enough to avoid damage to the belt in the unlikely event of seizure or failure.

FLEXCO Idler Rollers





Field-Proven Seal Design

- A Bearing Housing** – The bearing housing is friction welded to the roll so that no moisture or dust enters the roll at the joint.
- B Rock Shield** – The rock shield is pressed onto the shaft and is stationary during operation. It protects the labyrinth underneath and limits the number of rotating components making it safer for maintenance personnel.
- C Deep Groove Ball Bearing** – Bearings installed in Flexco rolls are sealed for life. They exceed industry standards and the roller design protects the bearings from premature failure.
- D Labyrinth** – The labyrinth rotates along with the roller creating a vortex to expel moisture and dirt that may have passed the rock shield away from the roll.

HDPE or Nylon?

Compare which roller is suitable for your application.

<i>Characteristic</i>	HDPE	Nylon
		
Acid Resistance	Excellent	Not Recommended
STD Diameters	127 mm	127 mm, 152 mm
TIR	TIR < 0.5 mm	TIR < 0.5 mm
STD Wall Thickness	10 mm	10 mm < 750 > 15 mm
Abrasion Resistance	Excellent	Very Good
Fire Retardant and Anti-Static?	No	Not standard but available on request
Breakaway Mass	< 250 g	< 250 g
Price	Standard	Premium

FLEXCO

Idler Rollers

The Flexco Advantage

The next generation of troughing and return rolls are made of lightweight, high strength, corrosion and abrasion resistant polymer material. Belt friendly construction means that even advanced wear on the shell won't damage the belt.

The Flexco Roller Range

The table below represents available belt widths for Flexco polymer rollers. In addition to the standard sizes listed in the table, Flexco also supplies a range of custom roll sizes and anti-roll back idlers. Please contact your local Flexco distributor to discuss the solution we are able to provide for your unique application.

Gauge Length of the Flexco Preferred Range of Polymer Rollers												
Shell Material	Shell Diameter and Series	Type	Belt Width (mm)									
			600	750	900	1050	1200	1350	1500	1650	1800	
HDPE	127 Shell dia with series 25 shafting	3 roll	250	300	350	400	460	510	570	620	670	
		5 roll	n/a	n/a	n/a	250	280	310	350	380	410	
		Vee return	310	410	485	570	645	730				
		Flat return	698									
NYLON	127 Shell dia with series 25 shafting	3 roll	250	300	350	400	460	510	570	620	670	
		5 roll	n/a	n/a	n/a	250	280	310	350	380	410	
		Vee return	310	410	485	570	645	730	810	895	975	
		Flat return	698	850	1004							
NYLON	152 Shell dia with series 25 shafting	3 roll	250	300	350	400	460	510	570	620	670	
		5 roll	n/a	n/a	n/a	250	280	310	350	380	410	
		Vee return	310	410	485	570	645	730	810	895	975	
		Flat return	698	850	1004							
NYLON	152 Shell dia with series 30 shafting	3 roll	250	300	350	400	460	510	570	620	670	
		5 roll	n/a	n/a	n/a	250	280	310	350	380	410	
		Vee return	310	410	485	570	645	730	810	895	975	
		Flat return	698	850	1004							

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Authorised Distributor:

