

## The CoreTech™ Advantage

CoreTech™ HDPE Rolls are highly effective workhorses for the dirtiest, most abrasive environments. They are ideal for highly corrosive, acidic environments – including those with sulfuric acid.

### CoreTech™ Tackles Common Issues

**Life.** CoreTech™ rollers offer the best combination of structural strength coupled with the requirements of mining, which include corrosion resistance, abrasion resistance, and very low surface friction.

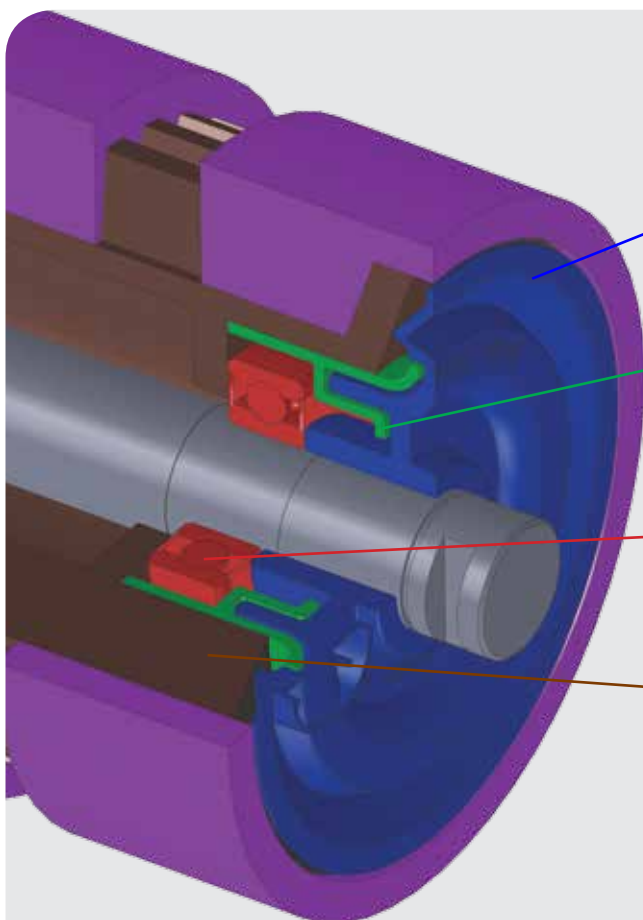
**Weight.** CoreTech rollers are approximately 40 percent lighter than equivalent steel rolls and as the rollers get longer in the

larger diameter steel rolls, that weight reduction gets closer to 50 percent. CoreTech rollers require only one individual to lift, carry, and place the roller, increasing productivity while keeping workers safe.

**Power Consumption.** CoreTech rollers have lower running friction values, which, depending on the application, can decrease power bills by up to 30 percent a year. Less power is used during start-up and while in operation, contributing to lower electrical consumption.

**Noise.** CoreTech rollers create far less noise than steel rollers. The estimated noise contribution of CoreTech rollers is +/- 10 dB below the noise contribution of metal rollers. This noise variation can mean the difference between functioning below the maximum decibel levels and violating ordinances and compromising worker safety.

**Corrosion.** When moisture, acid, salt, or other corrosive materials are present, CoreTech provides an excellent alternative to steel rollers. CoreTech rollers provide the same CEMA ratings as steel rollers, with no loss of functional performance, and much longer life.



### Field-Proven Seal Design

**Rock Shield** – The rock shield is pressed tight on the shaft and is stationary when the roller is in operation. This is the first line of defense and prevents larger material from damaging the seal. Since the rock shield is stationary, it improves safety by limiting rotating components accessible to workers near the outside of the idler.

**Centrifugal Seal** – The key to the CoreTech™ sealing arrangement, the centrifugal seal rotates with the roller and is specifically designed to create a vortex with forces up to 9X gravity. This action expels moisture and fines that may pass the rock shield. Centrifugal sealing is the most effective method of preventing moisture and dirt from entering the bearing chamber without the need for a grease pack.

**Deep Groove Ball Bearing** – A last line of defense, all CoreTech rollers use deep groove, factory lubricated and sealed for life ball bearings. The bearing selection ensures all CoreTech rollers meet the required application ratings and protect the bearings from premature failure due to corrosion or spalling.

**Bearing Housing** – The bearing housing is fused to the roller tube in a way that guarantees there is no path for moisture or dust to enter the roller. While many rollers use press fit end discs, the CoreTech roller is a unitary housing design. This means no end disk walk out and no risk of “pizza cutter” belt damage.

## Key Features and Benefits



*Ribbed Shell with inner core for medium- to heavy-duty applications.*



*Abrasion resistant outer shell for long life.*

## CoreTech™ HDPE Conveyor Rollers

The next generation of troughing and return rollers are made of lightweight, high strength, corrosion and abrasion resistant composite materials.

<b>HDPE Single Replacement Rolls</b>		
<b>Belt Width</b>	<b>Shaft Diameter</b>	<b>Roll Face</b>
<b>mm</b>	<b>mm</b>	<b>mm</b>
<b>3 Roll Troughing</b>		
400	25	170
450	25	190
500	25	200
600	25	240
750	25	290
900	25	340
1050	25	390
1200	25	450
1350	25	500
1500	25	560
<b>5 Roll Troughing</b>		
1200	25	270
1350	25	290
1500	25	340
1800	25	400
<b>Single Return Roll</b>		
400	25	484
450	25	536
<b>Double Roll V-Return</b>		
1050	25	560

**NOTE:** additional roll sizes are available upon request.  
Contact your Flexco Representative.

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