

## 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.

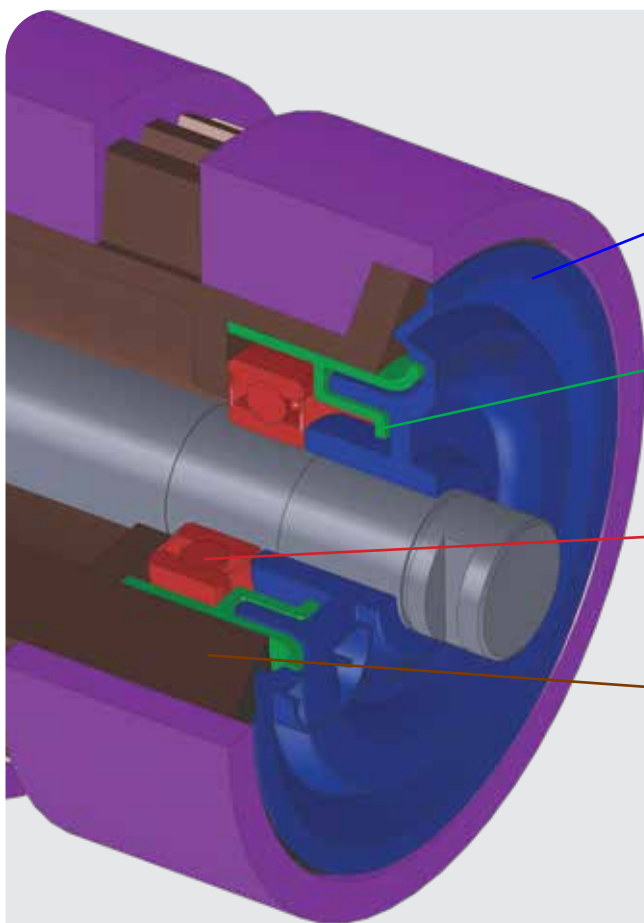
**Weight.** CoreTech rollers are approximately 40 percent lighter than equivalent steel rolls and as the rollers get longer in the

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.

HDPE Single Replacement Rolls						
	Belt Width		Shaft Diameter		Roll Face	
	in.	mm	in.	mm	in.	mm
5" (127 mm) Diameter Rolls	3 Roll Troughing					
	16	400	1	25	7	170
	18	450	1	25	7	190
	20	500	1	25	8	200
	24	600	1	25	9	240
	30	750	1	25	11	290
	36	900	1	25	13	340
	42	1050	1	25	15	390
	48	1200	1	25	18	450
	54	1350	1	25	20	500
	60	1500	1	25	22	560
	5 Roll Troughing					
	48	1200	1	25	11	270
	54	1350	1	25	11	290
	60	1500	1	25	13	340
	72	1800	1	25	16	400
	Single Return Roll					
	16	400	1	25	19	484
	18	450	1	25	21	536
	Double Roll V-Return					
42	1050	1	25	22	560	

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

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