

The CoreTech™ Advantage

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

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.

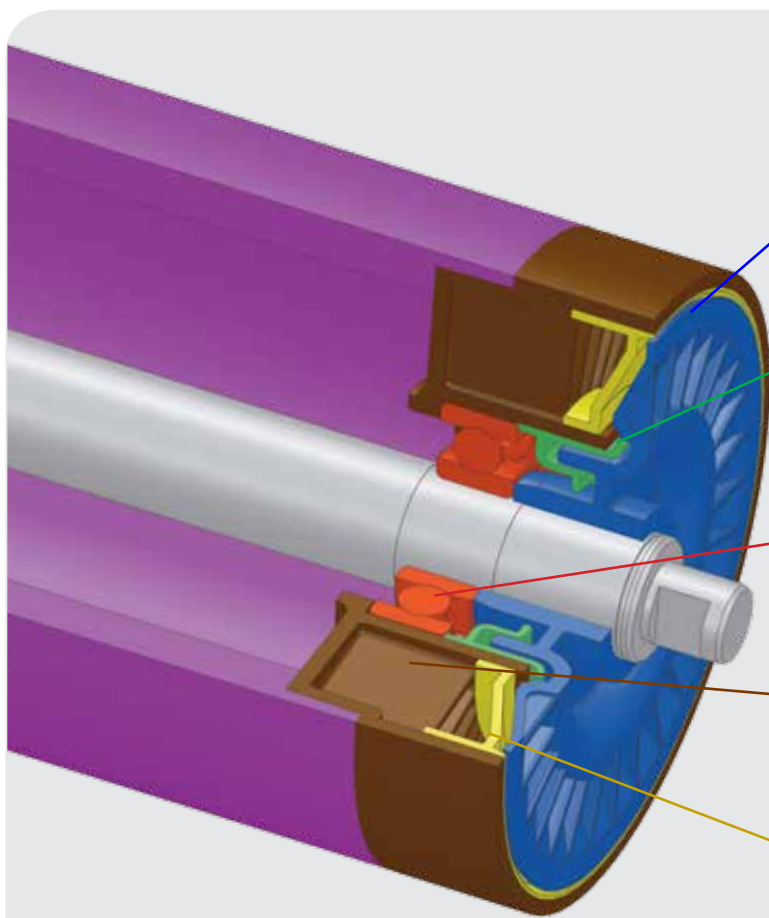
Corrosion. When moisture, salt, or other corrosive materials are present, CoreTech provides an excellent alternative to steel

rollers. CoreTech rollers provide the same CEMA ratings as steel rollers, with no loss of functional performance, and much longer life.

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.



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.

Housing Guard – The smooth surface of the housing guard provides for optimal operation of the centrifugal seal.

Key Features and Benefits



Ultra light construction for safe, easy handling.



Advanced composite material blend allows renegade materials to shed from the roll preventing material build-up and belt damage.



The centrifugal seal is designed for protection, preventing trapped material from damaging the end disk, which often results in premature roller failure.



Composite materials have excellent impact absorption qualities, which provide additional support for bearings and other roll components, resulting in increased roll life.

CoreTech™ Nylon Conveyor Rollers

Nylon 127 mm Diameter (5")					
	Belt Width		Description*		
	mm	in.	CEMA B	CEMA C	CEMA D
Troughing	450	18	N5B3T-18-XXX-SE	N5C3T-18-XXX-SE	
	600	24	N5B3T-24-XXX-SE	N5C3T-24-XXX-SE	N5D3T-24-XXX-SE
	750	30	N5B3T-30-XXX-SE	N5C3T-30-XXX-SE	N5D3T-30-XXX-SE
	900	36	N5B3T-36-XXX-SE	N5C3T-36-XXX-SE	N5D3T-36-XXX-SE
	1050	42	N5B3T-42-XXX-SE	N5C3T-42-XXX-SE	N5D3T-42-XXX-SE
	1200	48	N5B3T-48-XXX-SE	N5C3T-48-XXX-SE	N5D3T-48-XXX-SE
	1350	54		N5C3T-54-XXX-SE	N5D3T-54-XXX-SE
Flat Return	1500	60		N5C3T-60-XXX-SE	N5D3T-60-XXX-SE
	1800	72			N5D3T-72-XXX-SE
	600	18	N5BF-18-XXX-SE	N5CF-18-XXX-SE	N5DF-18-XXX-SE
	750	24	N5BF-24-XXX-SE	N5CF-24-XXX-SE	N5DF-24-XXX-SE
	900	30	N5BF-30-XXX-SE	N5CF-30-XXX-SE	N5DF-30-XXX-SE
	1050	36	N5BF-36-XXX-SE	N5CF-36-XXX-SE	N5DF-36-XXX-SE
	1200	42	N5BF-42-XXX-SE	N5CF-42-XXX-SE	N5DF-42-XXX-SE
V-Return	1350	48	N5BF-48-XXX-SE	N5CF-48-XXX-SE	N5DF-48-XXX-SE
	1500	54			N5DF-54-XXX-SE
	1800	60			N5DF-60-XXX-SE
	600	24		N5CV-24-XXX-SE	N5DV-24-XXX-SE
	750	30		N5CV-30-XXX-SE	N5DV-30-XXX-SE
	900	36		N5CV-36-XXX-SE	N5DV-36-XXX-SE
	1050	42		N5CV-42-XXX-SE	N5DV-42-XXX-SE
1200	48		N5CV-48-XXX-SE	N5DV-48-XXX-SE	
1350	54		N5CV-54-XXX-SE	N5DV-54-XXX-SE	
1500	60		N5CV-60-XXX-SE	N5DV-60-XXX-SE	
1800	72			N5DV-72-XXX-SE	

Nylon Rollers pair the latest plastic technology with smart design to produce a roller combining strength, performance, and durability. Perfect for medium- to heavy-duty applications, CoreTech Nylon Rollers are ideal for use with CEMA B, C, D, E, and F load ratings.

Nylon 152 mm Diameter (6")					
	Belt Width		Description*		
	mm	in.	CEMA C	CEMA D	CEMA E
Troughing	450	18	N6C3T-18-XXX-SE		
	600	24	N6C3T-24-XXX-SE	N6D3T-24-XXX-SE	
	750	30	N6C3T-30-XXX-SE	N6D3T-30-XXX-SE	
	900	36	N6C3T-36-XXX-SE	N6D3T-36-XXX-SE	N6E3T-36-XXX-SE
	1050	42	N6C3T-42-XXX-SE	N6D3T-42-XXX-SE	N6E3T-42-XXX-SE
	1200	48	N6C3T-48-XXX-SE	N6D3T-48-XXX-SE	N6E3T-48-XXX-SE
	1350	54	N6C3T-54-XXX-SE	N6D3T-54-XXX-SE	N6E3T-54-XXX-SE
	1500	60	N6C3T-60-XXX-SE	N6D3T-60-XXX-SE	N6E3T-60-XXX-SE
	1800	72		N6D3T-72-XXX-SE	N6E3T-72-XXX-SE
	2100	84			N6E3T-84-XXX-SE
Flat Return	2450	96			N6E3T-96-XXX-SE
	450	18	N6CF-18-XXX-SE		
	600	24	N6CF-24-XXX-SE	N6DF-24-XXX-SE	
	750	30	N6CF-30-XXX-SE	N6DF-30-XXX-SE	
	900	36	N6CF-36-XXX-SE	N6DF-36-XXX-SE	N6EF-36-XXX-SE
	1050	42	N6CF-42-XXX-SE	N6DF-42-XXX-SE	N6EF-42-XXX-SE
	1200	48	N6CF-48-XXX-SE	N6DF-48-XXX-SE	N6EF-48-XXX-SE
	1350	54	N6CF-54-XXX-SE	N6DF-54-XXX-SE	N6EF-54-XXX-SE
	1500	60	N6CF-60-XXX-SE	N6DF-60-XXX-SE	N6EF-60-XXX-SE
	1800	72		N6DF-72-XXX-SE	N6EF-72-XXX-SE
V-Return	2100	84			N6EF-84-XXX-SE
	2450	96			N6EF-96-XXX-SE
	600	24	N6CV-24-XXX-SE	N6DV-24-XXX-SE	
	750	30	N6CV-30-XXX-SE	N6DV-30-XXX-SE	
	900	36	N6CV-36-XXX-SE	N6DV-36-XXX-SE	N6EV-36-XXX-SE
	1050	42	N6CV-42-XXX-SE	N6DV-42-XXX-SE	N6EV-42-XXX-SE
	1200	48	N6CV-48-XXX-SE	N6DV-48-XXX-SE	N6EV-48-XXX-SE
	1350	54	N6CV-54-XXX-SE	N6DV-54-XXX-SE	N6EV-54-XXX-SE
	1500	60	N6CV-60-XXX-SE	N6DV-60-XXX-SE	N6EV-60-XXX-SE
	1800	72		N6DV-72-XXX-SE	N6EV-72-XXX-SE
2100	84			N6EV-84-XXX-SE	
2450	96			N6EV-96-XXX-SE	

Nylon 178 mm Diameter (7")						
	Belt Width		Description*			
	mm	in.	CEMA E	CEMA F		
Troughing	900	36	N7E3T-36-XXX-SE	N7F3T-36-XXX-SE		
	1050	42	N7E3T-42-XXX-SE	N7F3T-42-XXX-SE		
	1200	48	N7E3T-48-XXX-SE	N7F3T-48-XXX-SE		
	1350	54	N7E3T-54-XXX-SE	N7F3T-54-XXX-SE		
	1500	60	N7E3T-60-XXX-SE	N7F3T-60-XXX-SE		
	1800	72	N7E3T-72-XXX-SE	N7F3T-72-XXX-SE		
	2100	84	N7E3T-84-XXX-SE	N7F3T-84-XXX-SE		
	2450	96	N7E3T-96-XXX-SE	N7F3T-96-XXX-SE		
	Flat Return	900	36	N7EF-36-XXX-SE	N7FF-36-XXX-SE	
		1050	42	N7EF-42-XXX-SE	N7FF-42-XXX-SE	
1200		48	N7EF-48-XXX-SE	N7FF-48-XXX-SE		
1350		54	N7EF-54-XXX-SE	N7FF-54-XXX-SE		
1500		60	N7EF-60-XXX-SE	N7FF-60-XXX-SE		
1800		72	N7EF-72-XXX-SE	N7FF-72-XXX-SE		
2100		84	N7EF-84-XXX-SE	N7FF-84-XXX-SE		
2450		96	N7EF-96-XXX-SE	N7FF-96-XXX-SE		
V-Return		900	36	N7EV-36-XXX-SE	N7FV-36-XXX-SE	
		1050	42	N7EV-42-XXX-SE	N7FV-42-XXX-SE	
	1200	48	N7EV-48-XXX-SE	N7FV-48-XXX-SE		
	1350	54	N7EV-54-XXX-SE	N7FV-54-XXX-SE		
	1500	60	N7EV-60-XXX-SE	N7FV-60-XXX-SE		
	1800	72	N7EV-72-XXX-SE	N7FV-72-XXX-SE		
	2100	84	N7EV-84-XXX-SE	N7FV-84-XXX-SE		
	2450	96	N7EV-96-XXX-SE	N7FV-96-XXX-SE		

* Please Note: Description contains 2 placeholders. XXX for Roll Face Width SE for Shaft End Type Final descriptions will be adjusted on orders to reflect customer specifications.

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