CoreTech™ Product Specification Sheet

	5" (127 mm) Diameter	5" (127 mm) Diameter	6" (152 mm) Diameter	7" (178 mm) Diameter
Manufacturing Method	Injection Molding	Spun Extrusion	Spun Extrusion	Spun Extrusion
Shell Material Construction	HDPE (High Density Polyethylene)	Polyamide Composite	Polyamide Composite	Polyamide Composite
Bearing Housing Material Construction	Glass Reinforced Polypropylene	Glass Reinforced Polyamide 6	Glass Reinforced Polyamide 6	Glass Reinforced Polyamide 6
Cema Rating	Up to Cema C/D	Up to Cema C/D	Up to Cema D/E	Up to Cema F
Weight Reduction over Steel Rolls	Min 40% Less	Min 40% Less	Min 40% Less	Min 40% Less
Shell Wall Thickness	1-3/16" (30 mm)	Trough Rolls - 33/64"(13 mm) Return Rolls - 5/8"-45/64" (16 mm-18 mm)	Trough Rolls - 33/64"(13 mm) Return Rolls - 5/8"-45/64" (16 mm-18 mm)	Trough Rolls - 33/64" (13 mm) Return Rolls - 45/64" (18 mm)
TIR (Total Indicated Runout)	< 1/64" (0.4 mm)	< 1/64" (0.4 mm)	< 1/64" (0.4 mm)	< 1/64" (0.4 mm)
Roll Max Face Length	22-11/64" (563 mm)	80-35/64" (2046 mm)	96-17/32" (2452 mm)	96-17/32" (2452 mm)
Shell Dimensional Tolerances	<= 3/64" (1 mm)	<= 3/64" (1 mm)	<= 3/64" (1 mm)	<= 3/64" (1 mm)
Shaft Material	EN 8 Mild steel (Stainless Available)	EN 8 Mild steel (Stainless Available)	EN 8 Mild steel (Stainless Available)	EN 8 Mild steel (Stainless Available)
Shaft Diameter	1" (25 mm) or 1-3/16" (30 mm)	1" (25 mm) or 1-3/16" (30 mm)	1-3/16" (30 mm)	1-37/64" (40 mm) or 1-25/32" (45 mm)
Bearing Manufacturer	URB/ Customer Spec	URB/ Customer Spec	URB/ Customer Spec	
Bearing Type (Double Rubber sealed, greased for life)	6205/6305-2RS C3	6205/6305-2RS C3	6306-2RS C3	6308/6309 - 2RS C3
Suggested Bearing Life (Cema L10 Life @ 500rpm)	Cema C - 30 000 hrs Cema D - 60 000 hrs	Cema C - 60 000 hrs Cema D - 60 000 hrs	Cema D - 60 000 hrs Cema E - 60 000 hrs	Cema E - 60 000 hrs Cema F - 60 000 hrs
Seal Type	Non Contact Centrifugal Seal	Non Contact Centrifugal Seal	Non Contact Centrifugal Seal	Non Contact Centrifugal Seal
Breakaway Mass (Energy Required to cause rotation)	< 50 grams	< 50 grams	< 50 grams	< 70 grams
Running Friction (Energy Required to maintain a given RPM)	Ave <= 2.1 N 1.55 ft-lb	Ave <= 2.1 N 1.55 ft-lb	Ave <= 2.1 N 1.55 ft-lb	Ave <= 2.1 N 1.55 ft-lb
Noise Emission (Tested at 90% less than steel)	Ave 60% less than steel	Ave 60% less than steel	Ave 60% less than steel	Ave 60% less than steel
Fire Retardancy Properties	None	Standard Material Avg V2	Standard Material Avg V2	Standard Material Avg V2
Fire Retardancy and Anti Static Properties	None	Meets and exceeds South African Fire Retardancy requirements for Underground use **(SANS 10177-Part 9). The Special FRAS roller** meets Australian standards for Anti-Static and Flame Retardancy use in Underground Mines. **(Anti-Static - AS/NZS 60079.0:2008; Flammability - AS/NZS 60079.1:2007)**		
Toxicity Index: 1-10 (5 is maximum threshold for underground use in South Africa. SANS 10177 Part 9)	2 1/10	2 1/10	2 1/10	2 1/10

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