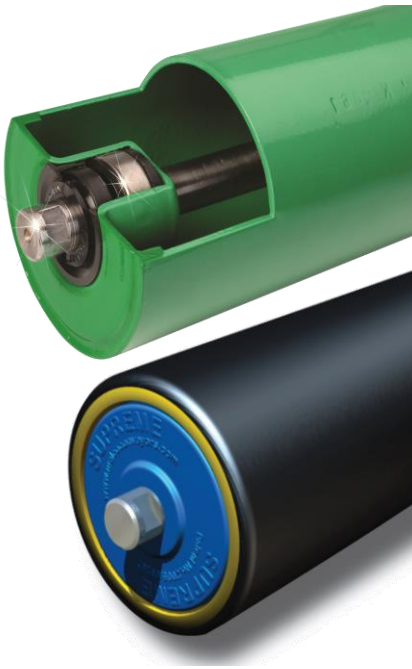
STEEL AND HDPE ROLLERS

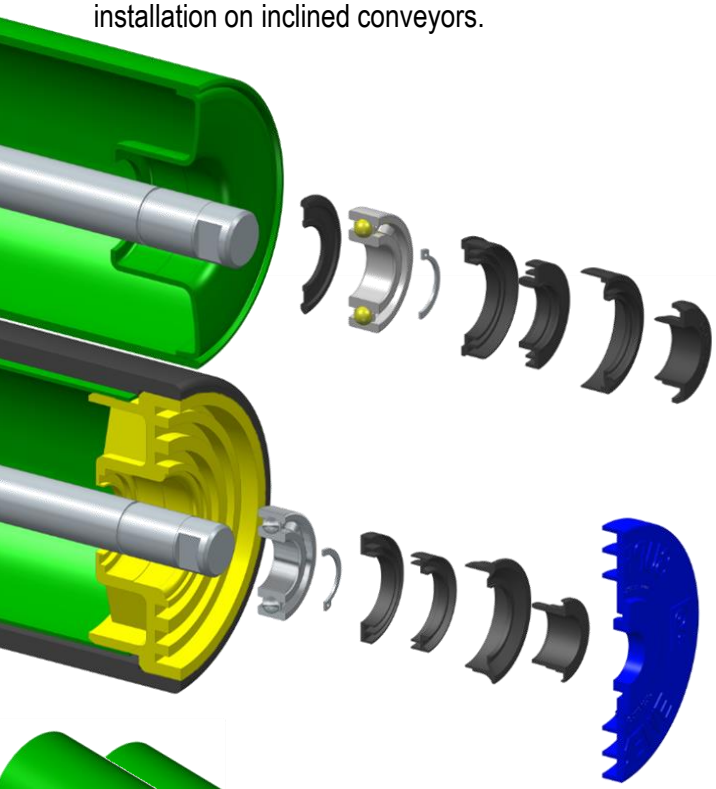
Technologies that make the world go around

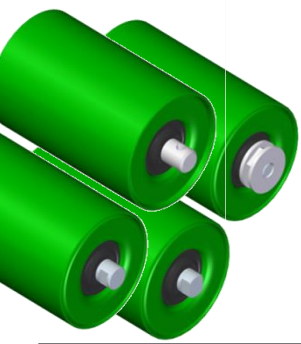
Melco manufactures steel and HDPE Supreme conveyor idler rollers according to the standards of SANS 1313.

Steel and HDPE roller designs are similar many in respects

- **Shaft deflection** The conveyor loading conditions of the conveyor are considered in order to correctly specify the appropriate shaft and bearing specifications which limits the loading and shaft deflection at the bearings.
- **Sealing** The “Contactless” or “Hermetic” seals are available for the rollers and are specified according to the potential for dirty operations.
- **Shaft ends** Variety of shaft end configurations including open, closed or garland or a variety of end adaptors.
- **Anti-runback** Both types of rollers can be fitted with anti-runback device for installation on inclined conveyors.







HDPE ADVANTAGES

Melco Supreme HDPE rollers present the following advantages over steel rollers:

- **Non corrosive shell** Ideal for wet and corrosive environments
- **Low TIR** Machined roller shell for accurate design
- **Lighter** Easier and safer for handling
- **Lower noise**
- **Less power** Particularly on conveyor start-up
- **Lower wear** Especially in dirty conditions
- **Less buildup** Low friction inhibits the buildup of duff
- **Static end face** Reduces nip-point risk

AVAILABLE IN A VARIETY OF SHAFT ENDS

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LOWER MASS AND ROTATING MASS

	Steel		HDPE		% Change	% Change
Roller Size	Mass (kg)	Rotating Mass (kg)	Mass (kg)	Rotating Mass (kg)	Mass	Rotating Mass
127/340/25	6.8	5.5	5.3	4.0	22%	37%
127/390/25	7.5	6.0	5.9	4.4	21%	36%
152/450/30	12.2	9.7	10.6	8.1	13%	19%
152/560/30	14.4	11.3	12.5	9.4	13%	20%

LOWER NOISE

	152 mm diam			127 mm diam		
Belt speed	Steel dB	HDPE dB	Diff %	Steel dB	HDPE dB	Diff %
4,2 m/sec	78.0	65,5	**12,5**	74,6	65,5	**9,1**
3,2 m/sec	73,5	62,5	**11.0**	67,3	62,5	**4,8**
1,2 m/sec	54,5	52,8	**1,7**	53,6	51,5	**2,1**

COMMON SIZES AVAILABLE ✔ Steel ✔ HDPE

Diameter (mm)	Shaft Series (mm)				
	25	30	35	40	50
102	✔				
127	✔ ✔	✔ ✔			
133	✔	✔			
152	✔ ✔	✔ ✔	✔	✔	✔
159	✔	✔			
178		✔	✔	✔ ✔	✔

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