

Megaroller Gen 2 Steel Roller

Heavy Duty, High Performance,
Fire Retardant, Anti-seize roller



Megaroller Gen 2 Steel Rollers are unique combination steel / high-density polyethylene (HDPE) fire retardant conveyor rollers. Incorporating Megaroller's proven Sealing Arrangement, and patented HDPE/fire retardant/AS Bearing and Seal Housing in a standard steel conveyer tube, the Gen 2 Steel Roller provides the desired attributes of steel rollers, without the negative characteristics of a steel-based bearing housing.



Proven, Patented Technologies

- **Advanced Sealing Arrangement (Patent number 99/5238)**
Megaroller's patented Sealing Arrangement, consisting of a back seal, a shock-resisting bearing cover, an outer seal, and four low-friction contact lip seals is proven by the SABS as the most-effective sealing arrangement available on the market. This unique sealing arrangement is non-corrosive, has a very low friction coefficient, and is highly-resistant to chemicals, acid, water and wear.
- **High-impact Bearing and Seal Housing (Patent number 2001/6883)**
Megaroller's patented Bearing and Sealing Housing, injection-moulded from high-impact HDPE to ensure precision, eliminates the risk of misalignment and distortion. Due to its innovative design, the bearing and sealing housing is able to absorb the impact imposed by uneven loads and belt speed. The patent includes the heat fusion process used to permanently attach the bearing housing to the roller shell to form a totally sealed and aligned roller drum which is precision machined to a concentricity (TIR) specification of 0,20mm maximum.

The Best of Both

Megaroller Gen 2 Steel Rollers offer the benefits of a conventional steel roller in applications where HDPE rollers are not optimal. Gen 2 Steel Rollers are available in these application variations:

- **Anti-seize:** Megaroller has engineered yet another heavy duty idler, that is now engineered with an anti-seize unit AS THE NEW STANDARD, that will adapt to high spillage applications – WET OR DRY!! Megaroller's patented sealing arrangement allows these rollers to be used in extreme temperatures and harsh weather conditions.
- **Anti- Run-Back:** Our Anti- Run-Back Technology can be applied to incline belts to prevent the belt from running back in the event of a "belt-snap". Rollers are fitted with Megaroller's patented Sealing Arrangement as well as a roller brake system which ensures that the roller can only run in one direction.
- **Anti-Static:** Our innovative Anti-Static Technology, comprising of a copper strip inside the roller that connects the outer shell to the shaft, can be applied to the Megaroller Hybrid Rollers. Static electricity is earthed inside the roller to mitigate the risk of an open spark in methane-rich underground mines, which presents a major fire hazard in coal and gold mines.
- **Water Resistant:** Megaroller has engineered many idlers for various applications and the new Gen 2 steel idler has also been launched in a water resistant sealing arrangement, to fill the wet and flotation areas and needs.

CONTACT US

Please refer to our website, www.megaroller africa.com, for all contact information. We would love to hear from you.

Megaroller Gen 2 Steel Heavy Duty, High Performance Anti-Seize, Fire Retardant Rollers

Cost Effective and Efficient

Utilizing Megaroller's innovative, patented HDPE Bearing and Seal Housing, the Gen 2 Steel Roller eliminates the unwanted characteristics of steel bearing housings which could shorten the lifespan of the bearings and consequently damage the belt.

Gen 2 Steel Rollers are produced with the highest quality materials, using the latest technologies, according to strict manufacturing standards for superior performance and longevity. Gen 2 Steel Rollers have a longer lifespan than conventional steel rollers.

The main body of the roller is made entirely from steel which has been trusted in conveyer roller systems for many years. The bearing housing is made from reinforced HDPE which is known for its high resistance to wear by abrasion; fire retardant characteristics; low friction co-efficiency; ability to absorb high impact forces, and high melting point.

Megaroller Gen 2 Steel Roller Specs



Outer Diameters / Available sizes

- 88.9
- 127
- 152

Shaft Sizes/ Available Options

- 20 Series
- 25 Series
- 30 Series

Gauge Length Range

- 200 to 2 400

Shaft material / Available Options

- Mild Steel
- Stainless Steel

Standard Shaft Variations

- Open-ended
- Closed-ended

Custom Shaft Machining / Available on request

- Stub
- Garland
- Extended
- Threaded
- Series 2000 End
- Hexagon Head End

Special Variations / Available on Request

- Links fitted for garland rollers
- Short roller body
- Longer roller body
- Heavy Duty
- Extra Heavy Duty

With advanced applications to prevent static and conveyer roll-backs, Gen 2 Steel Rollers have been shown to continually outperform conventional steel rollers. With advanced applications to prevent static and conveyer roll-backs, Gen 2 Steel Rollers have been shown to continually outperform conventional steel rollers.

Lubricated for Life

Bearing lubrication is an important factor affecting the theoretical lifespan of any conveyor roller. Bearings are lubricated at the factory and placed in a protective housing that is completely sealed by our unique sealing arrangement. This eliminates the need to lubricate at user level, prevents the risk of over or under-lubrication, and mitigates the risk of bearing failure due to lack of lubrication.

Our high-spec lubricant ticks all the boxes:

- Contains Anti-Rust Additives
- Contains Anti-Oxidant Additives
- Excellent Water Repellent Properties
- Mechanical Stability
- High Temperature Performance
- Operating Temperature from below -30°C to +200°C

Main Advantages

- Lower noise level
- Longer lifespan than all-steel rollers
- Lighter than a conventional steel roller
- Megaroller design and assembly eliminate bearing misalignment
- Features the most effective bearing protection and sealing arrangement available in the conveyor industry
- Extends the lifespan of bearings
- Bearing housing is recyclable
- Bearing housing cannot cause any damage to the conveyer belt in the event of a bearing failure or if the roller stops rotating
- Lowers maintenance costs
- Competitive pricing
- Reduces Total Cost of Ownership
- Performs well in harsh weather and extreme applications
- No Welding

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