



RULMECCA®
MOVING AHEAD



ROLLER SEALING SYSTEM

Sealing systems are an essential part of the design and performance of the roller as part of a conveyor system. Idler roller seals must ensure that the bearings are protected from water and dirt, and ensure that resistance to rolling is limited.

The roller seal works in conjunction with the seal specification of the bearing. Melco rollers are fitted with Rulmecca standardised seals in the Contactless or Hermetic styles.

Seal system components are manufactured with a combination of POM and Nylon materials.

**CONTACTLESS
OR HERMETIC**

**LOW
ROLLER DRAG**

**LOW
BREAKAWAY
MASS**

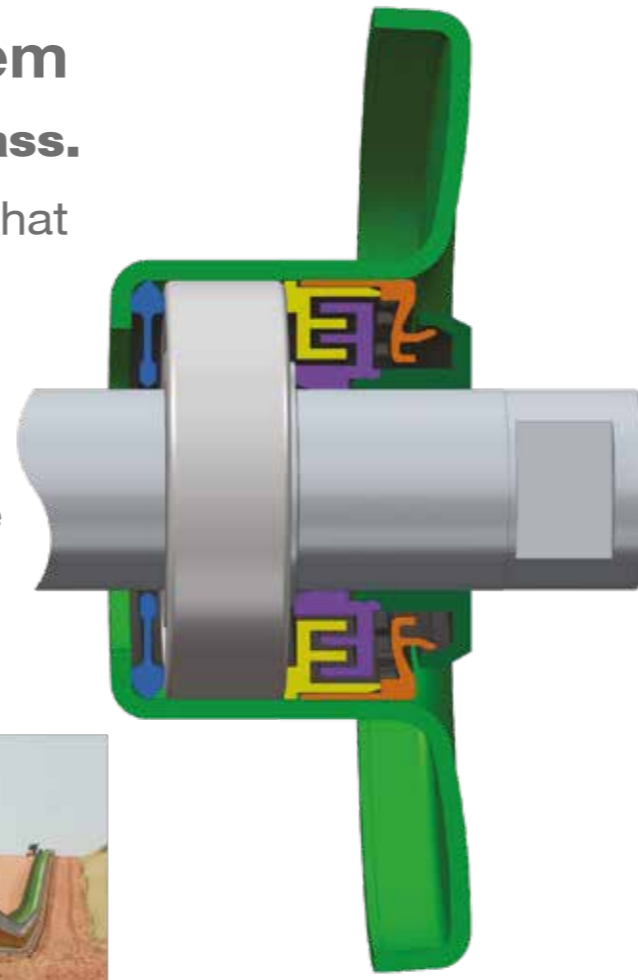
OPTIMAL SEAL

Contactless sealing system

Lowest drag and breakaway mass.

The seal is a multi-labyrinth system that ensures that any dirt has to follow a long path to arrive at the bearing. The contactless design gives an extremely low running resistance.

Long overland conveyors require the lowest resistance to motion with rollers being exposed to less water and dirt.



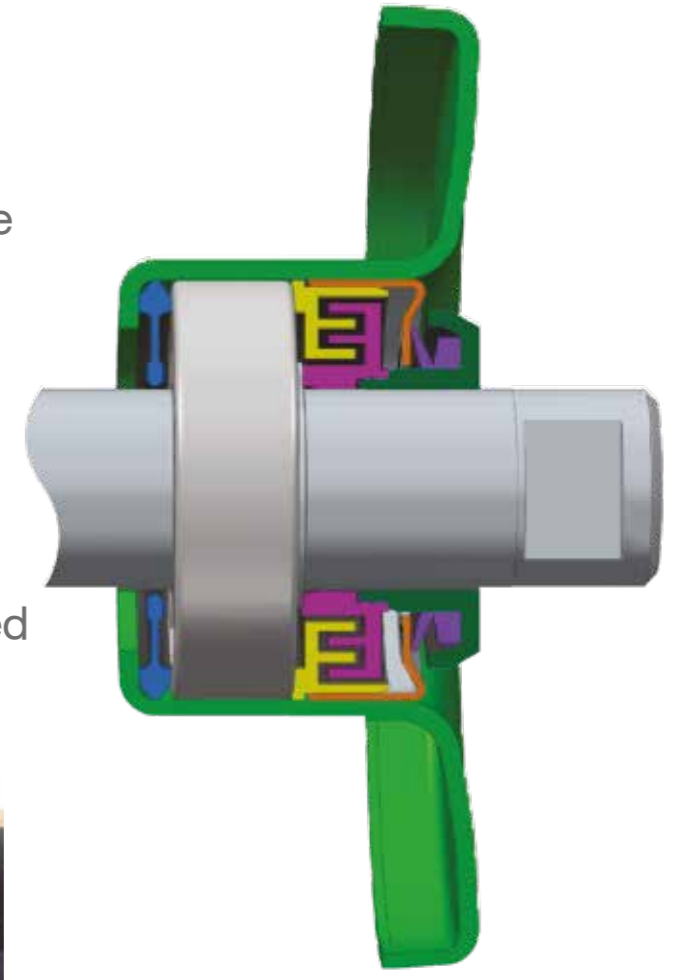
**Ideal for long
overland and
typical plant
conveyors.**

Hermetic sealing system

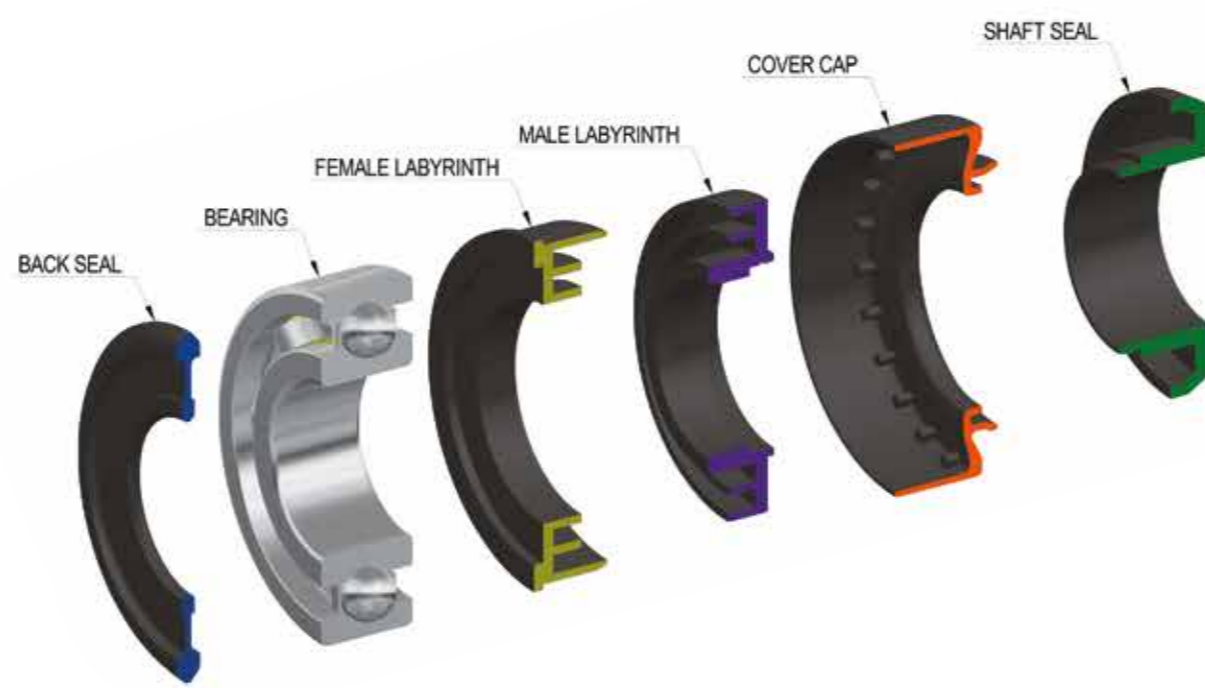
Optimal drag with better seal.

The seal is a multi-labyrinth system the same as the contactless seal with the addition of a lip-style contact seal to provide a positive seal to water and dirt ingress.

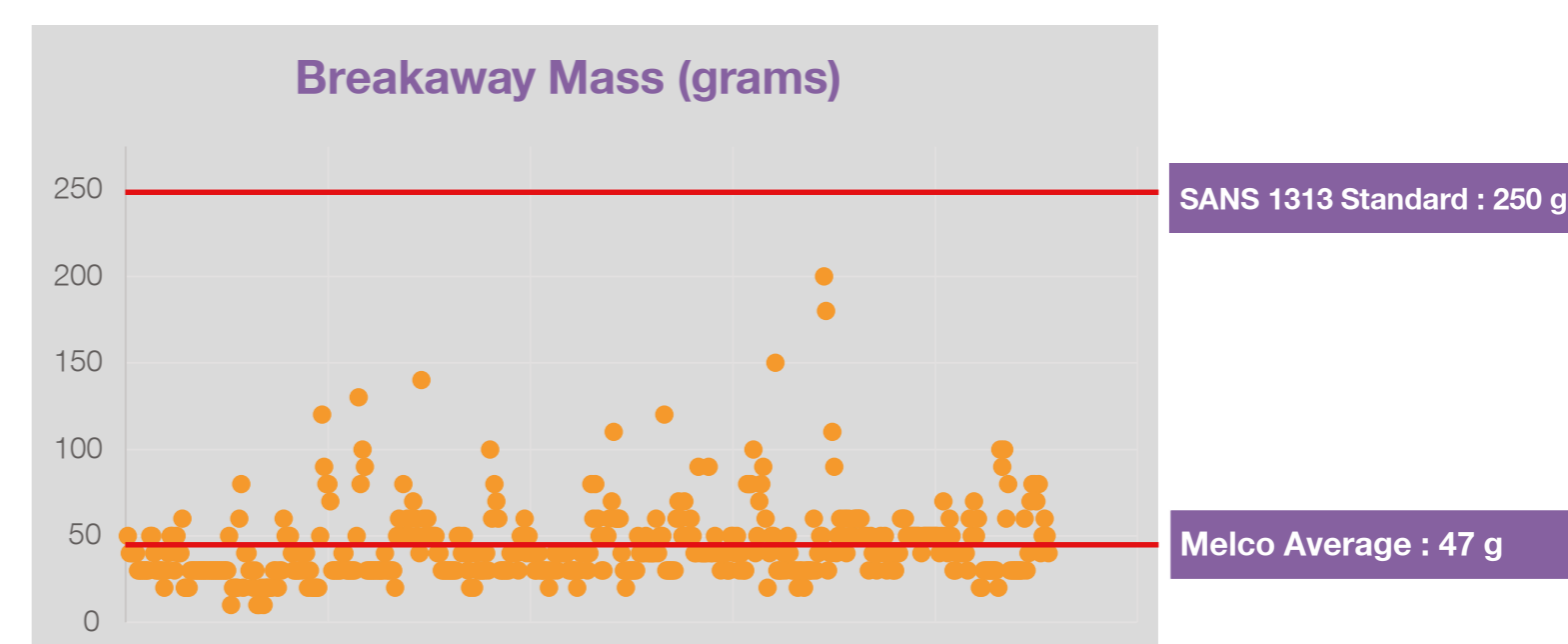
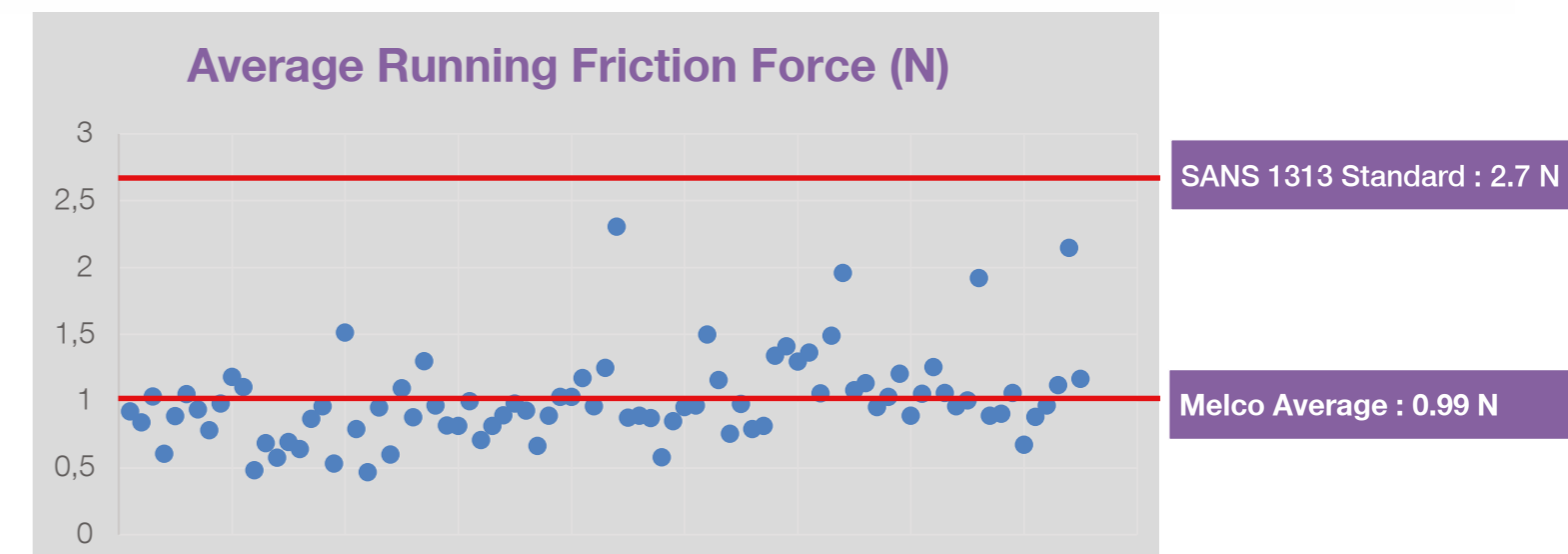
Plant style conveyors are often subjected to dirt, water and high pressure washing. The hermetic sealed idler rollers will have a longer life in these conditions.



**Ideal for wet and dirty operating conditions
on generally short conveyors and loading zones.**



The Melco Research and Development laboratory performs regular tests to assess various technical aspects of roller performance, including TIR, load running tests, breakaway and running resistance tests.



Flinger seals

Additional sealing can be provided in applications with high water and dirt content. EPDM deflector seals can be retrofitted to rollers.



Bearings:

Deep Groove ball bearings are used as standard. Bearing seal configurations - Open, ZZ or 2RS bearings can be used in variety of bearing brands. Available in a variety of brands.



Lake Lindsay Australia (Coal)



Foundation USA (Coal)



Ambatovy Madagascar (Nickel)



Optimum South Africa (Coal)