BRENCO[®] Bearing Seal Options

Proven Performance. Industry Leader.

Amsted Rail is the industry leader for AAR-approved journal bearings. Available for our most popular bearings sizes, our seals have a track record of proven performance in some of the world's toughest operating environments.

DDL[®] Bearing Seals

- Amsted Rail's standard seal design over the past 20 years
- Ideal for customers looking for reliability and less concerned about seal torque

ST-212 Bearing Seals

- Introduced in 1995
- Lower torque with little to no grease purge

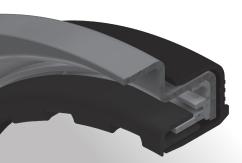
Efficiency Plus® Bearing Seals

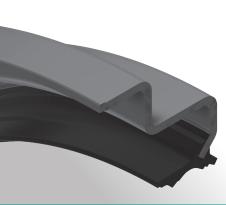
- Introduced in 2006
- Low-torque labyrinth seal design helps avoid grease purge
- Amsted Rail's lowest torque and temperature seal until the Tru-Guard

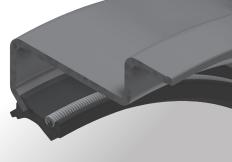
Tru-Guard[®] Bearing Seals

- Proven railroad performance since 2010
- True non-contact, virtually zero-torque seal design
- Guards bearing from ingress of contaminants, lowers bearing operating temperature, and helps avoid grease purge







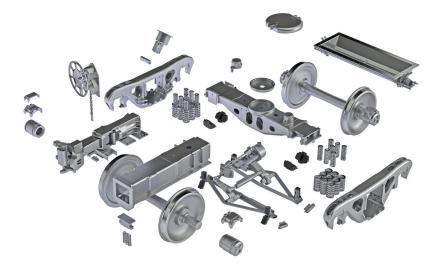




Bearing Seal Performance Features

| Seal Option | | Performance Feature | | | | |
|-------------|-----------------------------------|-------------------------------------|-------------|--------------------|-------------------|-----------------------|
| | | Grease Contaminant Seal Torque/Temp | | Temperature | Non-Verified | |
| PN Code | Name | Retention | Exclusion | During Break-In | After Break-In | Removal Prevention |
| ST | Double Dust Lip (DDL®) | Good | Good | Acceptable | Acceptable | Acceptable |
| В | ST-212 | Acceptable | Good | Acceptable | Good | Good |
| G | Efficiency Plus [®] (EP) | Exceptional | Acceptable | Good | Excellent | Good |
| K | Tru-Guard® | Exceptional | Exceptional | Exceptional | Exceptional | Exceptional |

Amsted Rail, the global leader in fully integrated freight car systems for the heavy haul rail market.



Amsted Rail has been an industry leader in freight railroading for more than 100 years. Our experience, dedication and efficiency in servicing today's demanding heavy haul operations is unequaled as we keep railcars rolling in some of the world's toughest railroad environments. To learn more, visit www.amstedrail.com.

