



PRODUCT GUIDE

# BRENCO<sup>®</sup> BEARINGS



# HEAVIER LOADS. HIGHER SPEEDS. HIGHEST QUALITY BEARINGS.



As the average freight car weight around the world is increasing and trains are expected to carry heavier loads at higher speeds, bearing reliability and extended life are paramount. To meet this demand, Amsted Rail continuously develops new products to support the heaviest loads under the most extreme operating conditions. By engineering proprietary lubricants, contact geometries and grease seals to maximize durability, extend longevity and reduce costs, Amsted Rail consistently delivers the highest quality and most reliable bearings in the world.

## BOGIE PERFORMANCE RELIES ON BEARING PERFORMANCE

As the loads exerted upon bearings mount, axle deflection and metal-to-metal contact can cause damage. Without high-performance stabilization, the efficacy of the entire undercarriage bogie system is steadily compromised.

For peace of mind, look to the global leader in railway bearings: Amsted Rail. We customize or identify the optimal bearing to suit the application based on a wide range of factors, including axial and radial loads, duty cycle, environmental and track conditions, railcar and truck type, track gauge, type of cargo being moved and more. This attention to detail is one reason nearly 3 out of every 4 new railcars in North America roll with confidence on Amsted Rail bearings.

## EXPERTISE, ALL DOWN THE LINE

With a full range of fatigue-resistant bearings and bearing components, Amsted Rail provides the right fit for any heavy haul application. All of these bearings include a low torque seal option to increase fuel efficiency while also decreasing bearing operating temperatures.



### GENERATION 2000 BEARINGS: CLASS K, CLASS M

Prevent excessive axle deflections which lead to fretting, back face wear and loose components. The use of hardened steel components in inboard contact areas provides fretting performance benefits over the competition.



### AAR STANDARD BEARINGS: CLASS C, CLASS D, CLASS E, CLASS F, CLASS G

Employ polyamide cages to reduce the likelihood of bearing failure resulting from high impact. Seamless forged rings ensure optimal performance under extreme loads. Customers that prefer steel cages will be accommodated as required.



### LOCOMOTIVE BEARINGS: CLASS GG

Equipped with polyamide cages as a safety standard along with seamless forged rings, these super heavy-duty bearings were created specifically to meet the higher demands of locomotive service.



### TRU-FIT® BACKING RING

Eliminates loose backing rings which account for nearly 40% of all bearing-related wheelset removals in North America, leading to millions of dollars in lost revenue annually. Prevents relative motion and wear on the axle while adding excellent water exclusion properties.

## INTERNATIONAL BEARINGS

We work closely with customers the world over to meet diverse applications. Whether the model is high reliability or high utilization, we engineer our products to meet or exceed the highest standards. Using the Tru-Guard® seal, most of our international bearings operate with zero seal torque.



### INCH BEARINGS: AUSBRID™, AUSBRID PLUS™, MEGA-TONNE™

Developed for the world's heaviest haul railroads, they are typically sold in Australia and China. Mega-tonne bearings, manufactured with the best materials in the industry, provide up to twice the relative bearing fatigue life as the AAR Class G bearing.



### METRIC BEARINGS: 130X230, 150X250, 130X250

We produce bearings for the European and 1520mm railway markets, primarily for freight, but also for passenger cars and locomotives. Amsted Rail was the first bearing supplier approved to supply tapered roller bearings to the non-AAR 1520mm railway market.

# AMSTED RAIL, THE GLOBAL LEADER IN FULLY INTEGRATED FREIGHT CAR SYSTEMS FOR THE HEAVY HAUL RAIL MARKET.

Amsted Rail is the world's leading provider of undercarriage and end-of-car railcar components, with facilities spanning six continents. Through our state-of-the-art manufacturing processes, Amsted Rail has been redefining industry standards for innovation and technology since 1877, providing our customers worldwide with unmatched performance and reliability for the long haul.

To learn more, visit [www.amstedrail.com](http://www.amstedrail.com).

