



PRODUCT GUIDE

GRIFFIN[®] **WHEELS**



KEEPING THE HEAVY HAUL WORLD ON A ROLL



Since 1877, Amsted Rail's Griffin wheel brand has been at the forefront of wheel design, manufacturing innovation and reliability. Our longstanding reputation for safety and quality is reinforced by Amsted Rail's global manufacturing capacity. With a commitment to excellence and continuous improvement, we're positioned to meet the evolving needs of our customers while offering a broad inventory of common wheel types to support operations in even the most demanding environments.

Our manufacturing operations combine an automotive-style quality system with the AAR Specification for Quality Assurance, M-1003, and leverage a state-of-the-art digital Manufacturing Execution System (MES) to integrate the latest technologies in robotics, machine vision and artificial intelligence into our processes. Our unique pressure-pouring method ensures superior steel cleanliness and consistent dimensions, including tape size and rim thickness. Each wheel undergoes a thorough inspection to ensure quality and performance, including an industry-leading ultrasonic process. This inspection covers near-surface material, focusing on the serviceable rim material where rolling contact forces are greatest, while ensuring bulk coverage of the entire rim.

At Amsted Rail, we've implemented advanced systems and technologies to reduce risk, protecting our workforce and enhancing productivity. Built on a deep commitment to elevating the employee experience, this pervasive safety culture is the foundation of our leadership in the industry.

WHEELS TO MEET EVERY RAILCAR AND LOCOMOTIVE NEED

Amsted Rail's Griffin wheels feature the most comprehensive product line in the heavy haul industry. Whatever your requirements, you can count on Amsted Rail to deliver the highest quality, most reliable rail wheels for the long haul.

MICRO ALLOY™: THE TOUGHEST WHEEL ON THE MARKET

Our proprietary Micro Alloy wheels demonstrate 72% longer wheel life when tested under rugged, real world heavy haul conditions, translating to lower operating expenses, less maintenance downtime and enhanced fluidity of the service. Made from a proprietary material that provides increased resistance to thermal degradation, nothing can withstand high temperatures like the Griffin Micro Alloy wheels. Available in multiple wheel diameters, including locomotives.

AAR STANDARD ONE-WEAR: THE WORLD'S BEST-SELLER

The AAR Standard One-Wear wheel is the go-to choice for proven reliability and durability. Available in 28", 33", 36" and 38".



ONE-WEAR PLUS: THE PLUS IN HIGHER MILEAGE SITUATIONS

The Griffin One-Wear Plus wheel provides additional tread service metal for cars in higher mileage freight car service, which can lead to extended service life. Available in 36".



TWO-WEAR AND MULTI-WEAR: EXTRA THICK FOR EXTRA LIFE

Two-Wear and Multi-Wear wheels are made of extra rim thickness, allowing a worn wheel to be machined and restored to its original shape multiple times during its lifetime. Available in 33", 36" and 38".



LOCOMOTIVE WHEELS: VARIOUS SIZES FOR MULTIPLE APPLICATIONS

The production of Griffin diesel locomotive wheels dates back to 1966. For nearly 20 of those years, our vibration design methodology has been used to ensure locomotive wheels could not only withstand traditional thermal and mechanical loads, but also traction control systems produced by modern locomotives. In fact, the AAR has recognized the value in this approach by adopting similar standards for locomotive design. Using proven designs, we produce diesel wheels cast to such close tolerances that they are better balanced than other wheels, contributing to maximum traction and longer wheel life.



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.

