

axiom rail | am^{III} (Broad Gauge)



Complies with the requirements of UIC518

Radial steering

120km/hr @ 22.5t axle load

100km/hr @ 25t axle load

Faiveley Transport integral brake

1524mm track gauge

Temperature range -40°C to +35°C

Axiom Rail is a company with an outstanding pedigree. One that provides a fresh alternative for customers in rolling stock services through Maintenance, Refurbishment, Components and Suspension Systems.

Axiom Rail is a supplier of innovative and adaptable rail freight suspension systems, operating throughout the UK and Nordic regions. All Axiom Rail designs are fully approved for use in the UK, Europe and Nordic countries.

Axiom Rail is a provider of engineering solutions for rolling stock, offering an all-encompassing package from design and production through to approval and installation.

am^{III} (Broad Gauge)

The AMIII Broad Gauge bogie was designed to meet the demands of 25 tonne axle load requirements in Finland.

The design is based on a low profile axle motion bogie with some features that have been uniquely developed for operations in cold climates.

The design allows for passive steering of the wheelsets so that they are able to take up a radial alignment when the bogie travels through track curves. Rubber elements incorporated into the suspension arrangement permit the wheelsets to move in a controlled manner relative to the bogie frame whilst maintaining dynamic stability.

The bogie features a two-stage friction damped suspension system, vertical suspension is provided by helical steel coil springs, whilst lateral movements use a "swing link principle".

The suspension movements are damped in both the vertical and lateral directions by a double chevron wedge system.

AMIII advantages

- 25tonnes axle loads
- UIC518 compliance
- Radial steering
- Low temperature range
- 1524mm track gauge width

Why choose Axiom Rail suspension systems?

- Low maintenance costs
- High axle loads
- Low noise
- High speeds
- Freight friendliness
- Track friendliness

