



AM^{III} (Broad Gauge)

AM^{III} Broad Gauge Bogie

Axiom Rail is a designer and supplier of innovative rail freight bogie and suspension systems, approved for use in the UK, Central Europe and the Nordic countries.

Axiom Rail also offers a comprehensive spares support network and bogie overhaul facility in both the UK and the Czech Republic to provide an unparalleled service for the after sales support of its vast OEM product range.

The AM^{III} Broad Gauge bogie was designed to meet the demands of 25 tonne axle load requirements in Finland.

The design creates 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.

- Complies with the requirements of UIC518
- Radial steering
- 120km/h @ 22.5t axle load
- 100km/h @ 25t axle load
- Faiveley Transport integral brake
- 1524mm track gauge
- Temperature range -40°C to +35°C

AM^{III} (Broad gauge) advantages

- 25 tonnes 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