These modern, light rail vehicle belong to the "CORADIA-LINT" family developed by LHB (LINT being the name of a family of light, innovative rail vehicle). The rail vehicle – which will in the future be introduced in the Netherlands as well – are used in Germany, e.g., by the German railway company, Deutsche Bahn AG, as series 640 and 648, and by Landesnahverkehrsgesellschaft Niedersachsen under the name CORADIA-LINT 41.

The 1-car units feature two double-axle bogies and can be coupled together to form a larger unit.

FAG supply the complete journal roller bearing units for the railcars of DB series 640/648.
Designed for long maintenance intervals, the FAG journal roller bearing unit consists of a complete housing with cover, roller bearing and grease.

**Data of rail vehicle**

- Maximum speed \( v_{\text{max}} = 120 \text{ km/h} \)
- Wheelset load at the power bogie \( A_{\text{max}} = 145 \text{ kN} \)

**Housings**

The journal roller bearing housings are made of spheroidal graphite iron and feature lateral, offset spring seats; some of the housings also feature a connection for the electromagnetic track brake holder.

**Cylindrical roller bearings**

Cylindrical roller bearings (types WJ and WJP) with polyamide cages accommodate the loads to be transmitted.

- Two cylindrical roller bearings
- FAG WJ100x180TVP and FAG WJP100x180P.TVP

are installed per wheelset.

**Lubrication and sealing**

A lithium soap base grease with EP additives (approved by DB) ensures the best possible lubricating conditions. On the wheel-side, the bearings are protected from contamination by a labyrinth with lamellar rings and a pre-seal.

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