
FAG Wheelset Bearing for Y25/25t-type Bogies for Freight Cars



Examples from Application Engineering

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FAG wheelset bearing - ASB130Z.176181 - for Y25-type bogies in freight cars up to 25 t axle load.

Courtesy of AAE

In cooperation with several European bogie manufacturers FAG has developed a wheelset bearing optimized for the 25 t axle load of Y25-type freight car bogies in order to satisfy the demand for even higher transport capacity.

In combination with further development of sub-assemblies such as brake-system, bogie frame and primary suspension, this wheelset bearing enables the required maximum loading per vehicle.

The special advantage of this FAG product is its suitability not only for existing spring sets, but for increased housing loads resulting from innovative suspension systems such as rubber roll springs or TKS (progressive, cylindrical Coil spring) springs.

The FAG wheelset bearing has been approved by independent certified test institutes.

The specified performance test to EN 12082 has been carried out by eurailTest in Paris/Vitry, the repeated alternating stress tests on the housing body to UIC 510-3, by the Steinbeis Transferzentrum at the Fachhochschule Würzburg – Schweinfurt.

Based on these test results the Eisenbahn Bundesamt (Federal German Railway Office) granted a separate approval (EBA Ident. Nr. 00G17A) for the component wheelset bearing for the first time.

The German Railway DB AG has specified the wheelset bearing design 386 for this product. At present several thousands of these wheelset bearings are being used throughout Europe.



Wheelset bearing

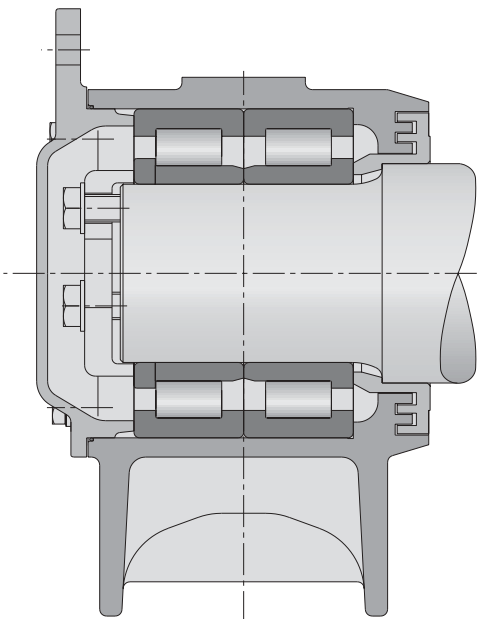
The loads involved are supported by WJ and WJP cylindrical roller bearings equipped with polyamide cages.

Two cylindrical roller bearings

FAG WJ130x240TVP and

FAG WJP130x240P.TVP

are mounted at each side with a rated mileage of approx. 4 million kilometers.



The separable bearings can be easily mounted and dismantled and facilitate a quick inspection of the bearing contact surfaces.

Housings

The ASB130Z.176181. wheelset bearing housings- made of spheroidal graphite cast iron GGG-40 are dimensioned for endurance strength i.e. they have a service life of generally up to 30 years.



Wheelset bearing Y25/25t

Fits

Shaft p6 / housing H7

Lubrication and sealing

Railway-approved lithium base soap greases with EP-additives guarantee optimum lubricating conditions.

At the wheel end, environmental contamination is prevented by an axial labyrinth, sometimes with an additional felt seal.

An alternative sealing arrangement uses lamellar rings.

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