

MoComp Bogie SF400

Trailer Bogie for passenger coaches

The bogie SF 400 was designed for push-pull service in locomotive-hauled passenger coaches. The maximum operational speed is 280 km/h.

High reliability and low cost

The bogies for both, end- and center coaches are equipped with air-spring-systems and can be used for single and double-deck coaches. During the development of this bogie family, a lot of theoretical and practical investigations were performed together with Deutsche Bahn AG, in order to design a modern, high performance and comfortable bogie family with high reliability and low life cycle cost. The concept of the SF 400 enables the production of high-performance bogies for a lot of applications, due to its modular design.

Maintenance free wheelset

The principle of the wheelset guidance was derived from the service-proven bogie SF 300 and consists of two pins that are pressed in the bogie-frame and two guiding bushes in the axle box. This kind of wheel-set guidance does not need any maintenance during the relevant maintenance-intervals and is more or less free of wear.

Extreme light weight designs

The open H-shaped bogie-frame is a high-sophisticated light-weight design with a low torsion resistance. Between the two longitudinal beams, there are two transversal beams with brackets for the disc-brake units.

Maximum braking power

Depending on the requirement, the bogies can be

equipped with three or four brake units. Spring applied brake units and magnetic track-brakes are optionally available.

Easy Maintenance

The secondary suspension system is designed as a controlled air-spring-system. Both air-springs are mounted in serial with a rubber emergency spring. This ensures operation with maximum speed, even when the air-spring is deflated. For damping of lateral and vertical movements, hydraulic dampers are installed. The transmission of braking and acceleration forces between bogie and car-body is performed by a king pin, a yoke and two guiding rods.

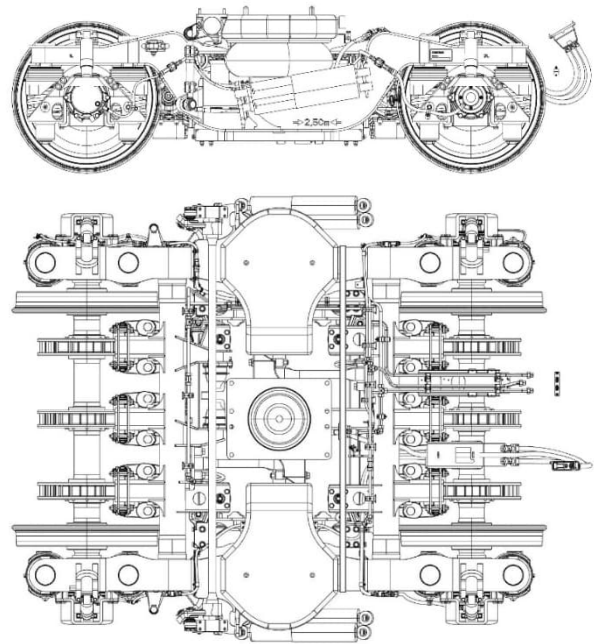


SF400 bogie

Technical data SF400	
Bogie	SF400
Running speed	up to 280 km/h
Axle load (EN 13103)	up to 17 t
Bogie height	989 mm
Wheelbase	2500 mm
Track gauge	1435 mm
Wheel diameter new/worn	920 / 860 mm
Smallest radius of curvature in service/workshop	150 / 80 m
Weight	approx. 7,1 t

References (Examples):

- ICE 2 / Germany
- ÖBB sleeper cars / Austria
- ÖBB double deck coach / Austria
- ÖBB Railjet / Austria
- SBB double deck coaches / Switzerland
- CD Railjet / Czech Republic
- Trenitalia double deck coaches / Italy



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Published by
Siemens Mobility Austria GmbH
 SMO RS CP BG&P
 Eggenberger Straße 31
 A-8020 Graz
 Austria

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The information given in this document contains general descriptions of technical possibilities which may not always be available in a particular case. The requested performance characteristics have therefore to be defined in the event of contract ward for the particular case in question.