



MoComp Bogie SF1000 Inspiro

Motor Bogie for metro vehicles

The SF 1000 was designed as a platform bogie for the use in metro vehicles with maximum speeds up to 90 km/h and a maximum axle load of 13.5 t.

Many configurations

The bogies were considered as two axle, air sprung bogies with two stages of suspension. Due to the modular design of the bogies, it is possible to implement motor and trailer bogies in different configurations.

Infrastructure friendly

The wheelbase of 2100 mm enables the bogies to be track friendly and particularly suitable for negotiating small radii of curvature.

Easy spare part stock keeping

The motor and trailer bogies are basically of identical design, except for the fact that the traction unit is additionally fitted in the motor bogie. This reduces the number of components required and simplifies spare part stock keeping.

Excellent riding comfort

The primary suspension system is equipped with pairs of conical rubber springs, ensuring good self-damping characteristics and longitudinal and lateral flexible axle guidance. The secondary suspension system consists of air springs and offers optimum ride quality as well as the possibility of level adjustment in the secondary suspension.

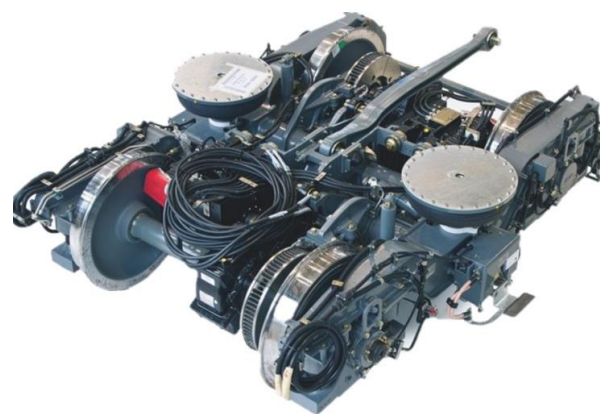
Maximum braking power

The transmission of longitudinal forces between car body and bogie frame is done by a traction rod. The

mechanical brake unit is realized with one brake actuator and one axle mounted disc per axle.

Innovative development

By use of proven design components, we have developed an efficient bogie family of the highest reliability with perfect maintainability, high flexibility and excellent running behavior.



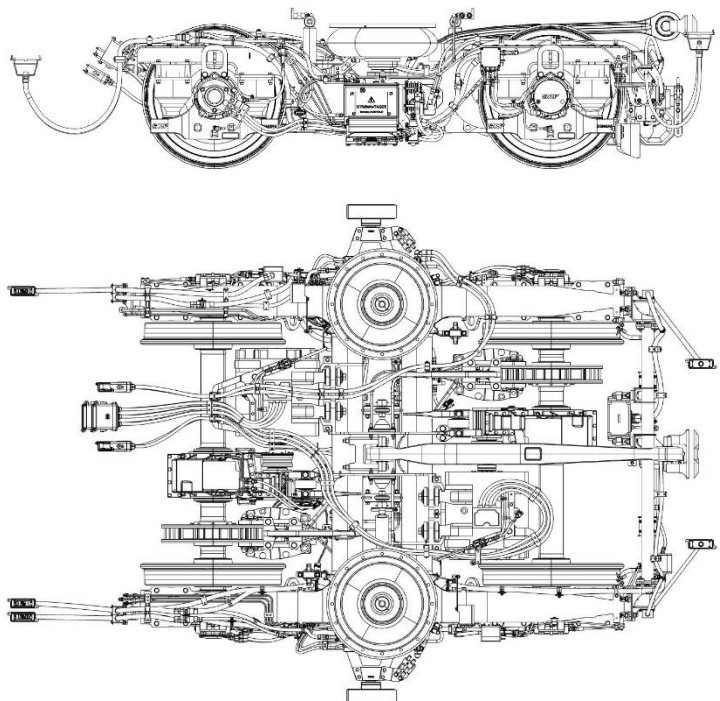
SF1000 bogie

Technical data SF1000 Inspiro

Bogie	SF1000 Inspiro
Running speed	up to 90 km/h
Axle load (EN 13103)	up to 13,5 t
Continuous power per wheelset	up to 140 kW
Wheelbase	2100 mm
Track gauge	1435 mm
Wheel diameter new/worn	850 / 770 mm
Smallest radius of curvature in service/workshop	90 / 60 m
Weight MBG/TBG	approx. 6,1 – 6,4 t / approx. 4,1 – 4,4 t

Referenzen:

Metro Nuremberg
Metro Oslo
Metro Sofia
Metro Warsaw
Metro Munich
Metro Riyad



Published by

Siemens Mobility Austria GmbH

SMO RS CP BG&P

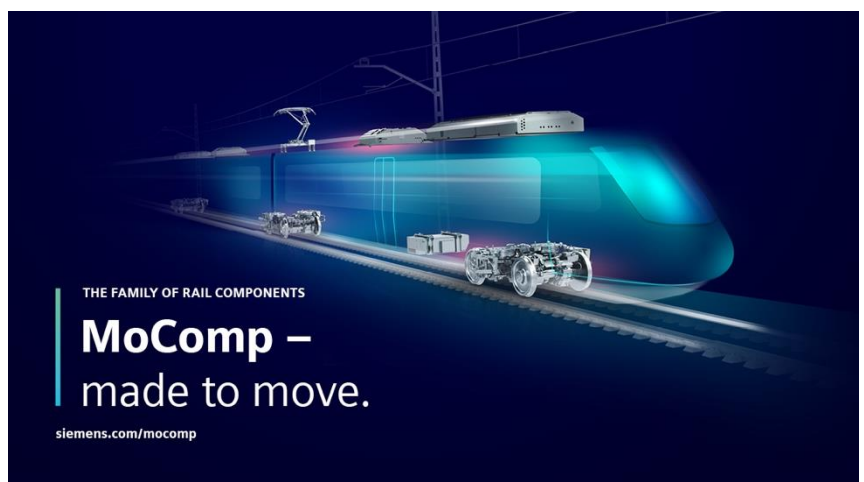
Eggenberger Straße 31

A-8020 Graz

Austria

© Siemens Mobility GmbH 02/2022

[siemens.com/mobility](https://www.siemens.com/mobility)



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 award for the particular case in question.

SIEMENS