

## MoComp Bogies SF4

### Platform for electric locomotives

The SF 4 bogie-platform was developed for use in the Vectron high-performance locomotive. The SF 4 is suitable for all types of the Vectron electric locomotive.

#### Application oriented configuration

The bogie is configurable according to the requirements of the operator the operation area. Thus, the bogie is prepared for the mounting of different packages of European train control antennas, sanding and wheel flange-lubrication is possible on each wheel. Also, different types and configurations of brake re-lease handles are possible.

#### Optimal setting options

The bogie frame consists of sealed welded box profiles. Its main components are two longitudinal supports, a central cross strut and two end supports. The wheelset consists of two rolled mono-block wheel disks and a forged hollow shaft. The transfer of the tractive and braking forces from the bogie to the locomotive frame involves a square bogie pin. The bogie pin is welded to the underframe of the locomotive box. The locomotive body is supported on each bogie using four flexi coil springs. These secondary springs are arranged in pairs perpendicular to the direction of travel. The wheelset guidance is carried out with triangle rods for an optimized adjustment between longitudinal and transversal stiffness of the wheelset guidance. This design allows the smallest possible forces between wheel and track.

#### According to standards

locomotive is designed to travel on track levels as defined in EN 14363:2005/UIC 518:2009 QN2. The minimum track curve radius to be travelled during commercial operation is 150 m.

#### Proven principles

The SF 4 bogie platform meets the highest technical and economical requirements and is designed according to the latest state of the art. Nevertheless, the bogie is based on proven design principles and service proven components.

#### 100% serviceability

Good accessibility to the areas to be checked during the maintenance periods is provided by the design. Wear and tear components are also easily accessible.



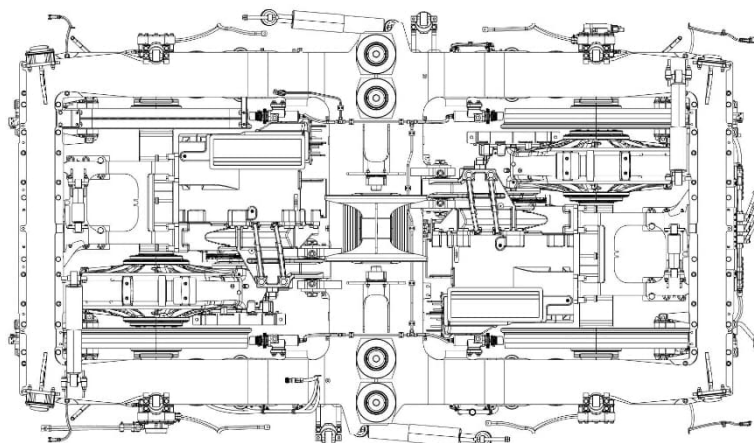
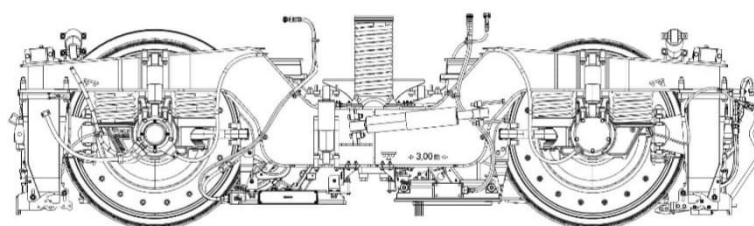
SF4 bogie

## Technical data SF4

<b>Bogie</b>	SF4
<b>Max. operational speed</b>	up to 230 km/h
<b>Axle load (EN 13103)</b>	up to 22,5 t
<b>Continuous power per wheelset</b>	1600 kW
<b>Starting tractive effort per wheelset</b>	75 kN
<b>Wheelbase</b>	3000 mm
<b>Track gauge</b>	1435 mm
<b>Wheel diameter new/worn</b>	1250 / 1160 mm
<b>Smallest radius of curvature in service/workshop</b>	150 / 100 m
<b>Weight</b>	approx. 18 t

### References (examples):

ÖBB / Austria  
DB Cargo / Germany  
SBB Cargo / Swiss  
PKP Cargo / Poland  
DSB / Denmark  
var. operators in Europe



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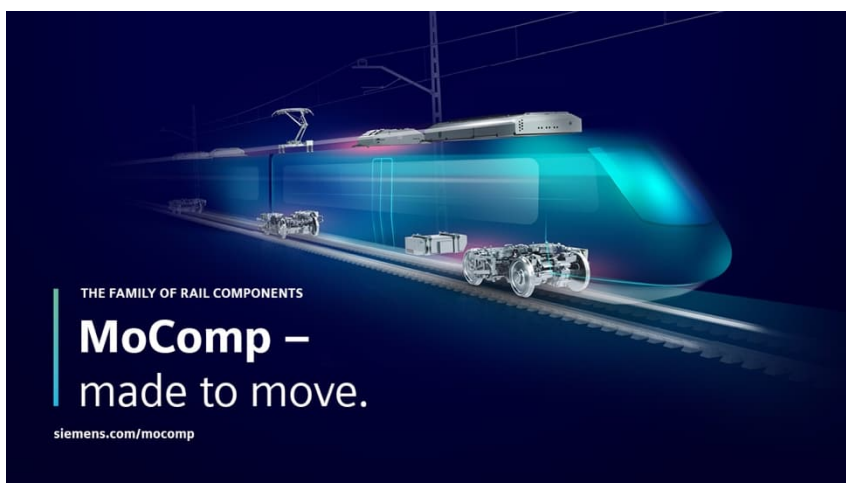
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The information given in this document contains general descriptions of technical possibilities which may not always be available in a particular case. The requested performance characteristics have therefore to be defined in the event of contract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

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