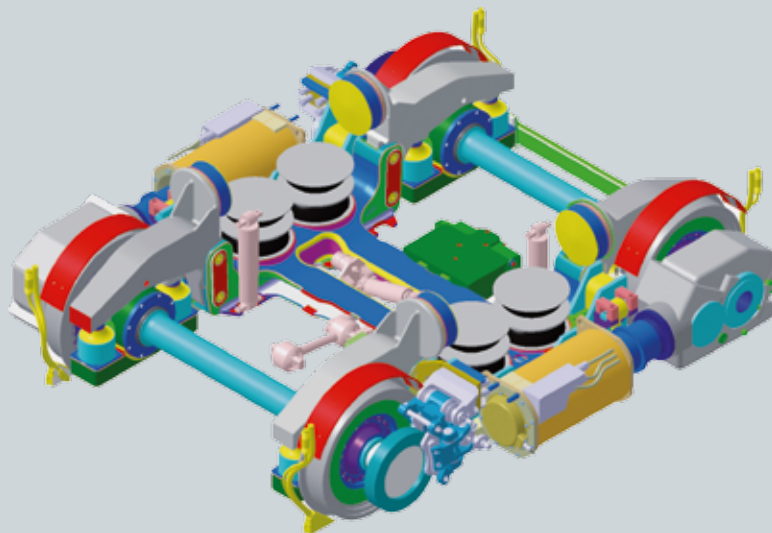


S-Size Bogies

〈 FLEXX Urban 3000 Bogie 〉



The **BOMBARDIER* FLEXX* Urban 3000 bogie platform** will be typically used for 100% low-floor trams. With this bolsterless bogie the solution of a 100% low-floor vehicle is achieved in combination with the robustness of bogie using standard axle technology.

The *FLEXX Urban 3000* is pushing forward the characteristics of the successful low floor *FLEXX Urban 1000* bogie: low noise and high comfort, robustness, reliability and high level of safety.

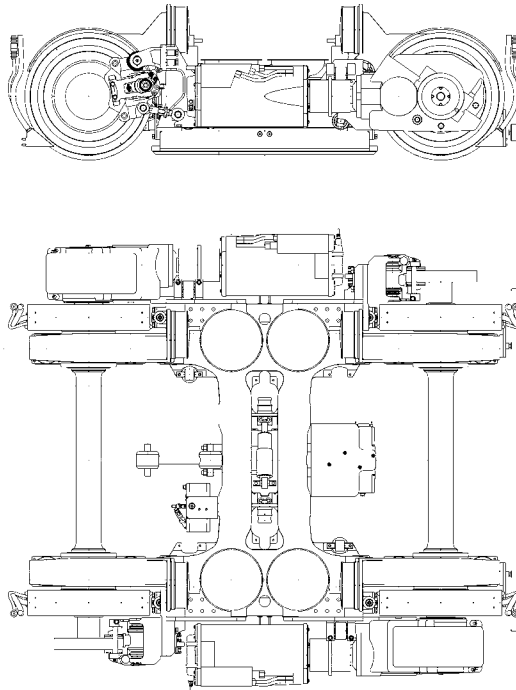
Additionally an extreme standardization combined with the various optional equipments available are both answering market demands for: high technical reliability, significant Life Cycle Costs reduction, long term availability as well as reduced delivery time of spare parts.



BOMBARDIER* FLEXXITY* 2 tram

The *FLEXX Urban 3000* platform includes various configurations: motor and trailer, standard (1,435mm) as well as narrow (1,000 mm) gauges, for narrow car body width of 2.4m as well as large car body width: 2.65m.

The design of the *FLEXX Urban 3000* bogie is characterized by a short wheelbase of 1,850mm for smooth curve negotiation, elastomeric primary suspension, resilient wheels and a fully suspended compact and silent water cooled motor.



Characteristics

Cast frame structure with inboard bearings in standard gauge and outboard bearings in narrow gauges
Structure of frame fatigue tested according to EN13749 requirements
Robustness of a standard axle technology combined with low floor
Primary suspension with maintenance-free conical elastomeric springs
Secondary suspension with maintenance free exclusive elastomeric springs
High focus on reduction of structure born noise
Lateral and vertical hydraulic dampers in the secondary suspension
One fully suspended, compact and silent water cooled motor per axle
Electric service brake completed with one axle mounted ventilated disc brake per axle.
Hydraulic brake system fully integrated into the bogie
Electro magnetic track brake developing magnet attraction force up to 81 KN
Optimized bogie to carbody connection
Extreme standardization among the platform (motor and trailer, standard and meter gauges) in spite of the extreme flexibility provided by the various optional equipments* available.

Technical Data

Gauge	1,000-1,435 mm
Wheel base	1,850 mm
Wheel diameter max.	560 to 640 mm
Wheel diameter min.	500 to 540 mm
Maximum speed	80 km/h
Mass (motor)	4.7 t to 4.95 t
Maximum axle load	12 t
Power	2x125 kW

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