



Viale and Torino

SCANIA MARCOPOLO

FOR URBAN TRANSPORT OPERATIONS



SCANIA



DESIGNED FOR SUSTAINABLE AND EFFICIENT MOBILITY

Based on more than a century of engineering experience, our new generation of buses has been developed to meet the demands of today's and tomorrow's cities. Energy efficient and available in a wide range of powertrains, it offers the latest technology in everything from safety systems to reduced emission and noise levels. And through excellent uptime, fuel economy, and the possibility of high passenger capacity, Scania Marcopolo buses allow sustainable mobility to go hand-in-hand with operating economy.

For a better city environment

Having the right vehicle for the operation and using it efficiently is the best way to minimise environmental impact. Scania offers engines running on all commercially viable renewable fuels – biodiesel/FAME, HVO and biogas powertrains, in order to meet the requirements of all urban operations. Through high quality vehicles and innovative technical solutions, maintenance, and a range of driver services, we address fuel efficiency from all angles, helping operators to reduce emissions and fuel costs.

To create a positive passenger experience, our buses have independent front suspension that makes the ride more comfortable. New isolation materials used in the bus help minimise noise levels, and the new internal design and quality of the materials creates a bright, spacious and welcoming passenger environment. To further increase the appeal of public transport, the bus also has an attractive exterior design.

To help prevent accidents and create a safer city environment, our buses have the most modern active safety systems and features. These help the driver by increasing their awareness of other road users, and even help to control the vehicle when required.

Energy efficiency lowers operating cost

Public transport operators know the importance of keeping operating costs to a minimum, and fuel consumption is one of the main contributors to cost. An energy efficient powertrain can therefore offer significant savings in fuel. We develop and offer highly energy-efficient powertrains. Compared to previous models, our new generation of buses can potentially save up to 9% in fuel and emissions, without compromising on performance. This is achieved through a number of factors, with the most significant savings coming from improved engine and gearbox efficiency. Beyond the powertrain, driving style has a major impact on fuel consumption. The driveability of our vehicles and our driver assistance systems, as well as our driver services, can potentially contribute to further fuel savings of up to 10%.

Ensuring availability through reliable solutions

To make urban operations cost-effective, it is important to reduce downtime and increase usage. Our buses are based on proven technology and components, which results in body, chassis and drivelines that are reliable, durable and robust. That reliability is the key to minimising time in the workshop and maximising the use of



the vehicle. Our buses are designed and engineered to ensure that sensitive and expensive components are protected in the event of a collision. Limiting damage and avoiding deformation of components is critical for minimising costs, as well as complex and time-consuming repairs. In addition, our buses are designed to facilitate maintenance and make it as efficient as possible. Here, Scania, in close collaboration with Marcopolo, takes full responsibility for excellent spare parts availability, with maintenance and repair provided by professional Scania workshops, supported by technical expertise from Marcopolo in relation to the body.

Excellent passenger capacity

Our buses allow operators to keep costs down by minimising the number of vehicles required during peak hours; high axle load capacity, reduced chassis and body weight, and new interior layout options mean vehicle weight can be kept down while increasing passenger capacity.

A first-class driver area

A bus operating in urban traffic is constantly exposed to the risk of external damage and the work environment for the driver can be very demanding. A quality driver environment can therefore play a crucial role in reducing the risk of collisions, downtime and sick-leave, while increasing employee retention. The driver area in our buses is excellent with a great turning radius, good visibility, and an overall well-balanced vehicle makes for excellent driveability, while advanced driver assistance systems give the driver enhanced control of the vehicle through improved assisted handling, steering and braking. This increases safety and helps minimise accidents and the associated costs.

Due to the demanding work environment, operators also face challenges when it comes to sick leave and employee retention; that's why we've carefully designed an ergonomic work environment for drivers.

Powertrains

The Scania Marcopolo offer provides a wide range of energy efficient and reliable powertrains optimised for inner city suburban traffic.

Combustion, Euro 3	Output	Torque	Fuel options
9-litre	250 hp (184 kW) at 1900 r/min	1250 Nm (1000-1350 r/min)	Biodiesel, HVO, diesel
9-litre	310 hp (228 kW) at 1900 r/min	1550 Nm (1000-1350 r/min)	Biodiesel, HVO, diesel

Fuel capacity: 140–360 litres, 180–560 litres (high articulated)

Combustion, Euro 6	Output	Torque	Emissions control	Fuel options
9-litre	280 hp (206 kW) at 1900 r/min	1350 Nm (1000-1400 r/min)	EGR	Biogas, natural gas
9-litre	340 hp (250 kW) at 1900 r/min	1600 Nm (1100-1400 r/min)	EGR	Biogas, natural gas

Fuel capacity: 1260–1875 litres

Gearboxes

6-speed fully automatic gearbox (ZF EcoLife 2)

12-speed manual gearbox with Scania Opticruise and retarder

Axles, lengths

The urban Scania Marcopolo range is available in different versions and several options for door configurations to be able to meet the different demands of passenger capacity and flow.

Viale BRS



4x2 and 6x2*4, 13.0 m, 15.0 m

Torino



4x2, 11.53 m, 13.0 m, 13.1 m

Viale Articulado



6x2/2, 19.0 m

Viale BRT



4x2, 13.4 m

Heights

The heights may vary depending on market, powertrain and configuration.

Floor level

The low entry point and flat floor up to the central doors area offer a great accessibility. In the rear section a higher floor creates better view for passengers. The wide aisle contributes to increased accessibility, comfort and passenger flow.



PRODUCT DESIGN FEATURES

Our buses are produced in a long-standing partnership between Scania and Marcopolo. Everything from the chassis construction to the powertrain and the body has been developed and thoroughly tested with a focus on reliability and performance without compromising on energy efficiency.



Powertrain technology

The highly dependable, durable, and robust powertrains enable fuel savings of up to 9%.

Floor heights

The Scania Marcopolo has a high degree of adaptability to the needs of customers with the availability of several finishes and floor heights.

Chassis frame construction

The strengthened front axle for low entry K-chassis with individual front suspension, in combination with the ability to now use wider tyres, means that load capacity is increased from 7.1 to 8.2 tonnes. For high floor K-chassis with individual front suspension, the load capacity is increased from 7.5 to 8.0 tonnes. This allows higher passenger capacity. It also enables optimised weight distribution between the front and rear axles – especially important for gas vehicles.

Fuel tanks

Available in several volume options suitable for urban operations. The shape of the 140–360 litre (usable volumes) fuel tanks is optimised for the inner layout to enable seat mounting closer to the wheelhouses.



Front suspension technology

Without compromising on passenger capacity, the new independent front suspension on K-chassis low entry, offers excellent passenger comfort and enables a wider aisle (900 mm) – resulting in new layout possibilities, increased passenger flow, space and accessibility. The new rigid front suspension also increases passenger capacity and offers good passenger comfort.

Electric system

The new power supply architecture comes with improved electronic control units (ECUs) and functions that improve performance and facilitate diagnostics for repair and maintenance. It also enables new functionality within ADAS, e-mobility and autonomous transport systems.

Exterior design

Buses are a natural part of the cityscape, and the new Scania Marcopolo has an attractive, strong and distinctive exterior character with an urban spirit; a metropolitan design, lighter and more aerodynamic. Additionally, accessibility and functionality, adheres to the most stringent regulations.

Interior design

The accessibility and spaciousness of the interior create an attractive passenger environment, boosting the appeal of public transport.

- Carefully designed seating ergonomics.
- Reduced noise emissions and vibrations.
- Climate control and versatile fixtures and fittings enhance passenger comfort.
- New materials and modern manufacturing technologies improve durability, ageing, and recyclability.

Driver area

Offers a spacious and ergonomic environment with great visibility, safety, comfort, and driveability.

- Excellent ergonomics and reachability – with accessible controls and electronics integrated into a single central console.
- High visibility – new windscreen with greater curvature, improved rear-view mirrors and integrated radar in the centre of the front end.
- Increased safety with electropneumatic parking brake control.
- Excellent driveability – great turning radius, advanced driver assistance systems, and improved assisted handling, steering and braking.
- Updated lever design.
- New dashboard design, enables integration of vending machines and SAE systems.

Safety features

A range of functions support the driver in demanding urban environments.

- Electropneumatic parking brake control – locks the brakes until acceleration is activated, thereby preventing unintentional vehicle motion.
- Adaptive cruise control – assists the driver to keep distance to vehicles in front.
- Vulnerable road user collision warning – detects cyclist and pedestrians close to the vehicle.
- Blind spot warning – detects other vehicles located in the driver's blind spot area.
- Underrun protection – rigid beams in the rear protects other road users and sensitive components on the chassis.

General

Wheel configuration: 2-axle, 3-axle with tag axle (non-steered or steered), 3-axle articulated.

Door configuration: Viale BRT and Torino, 3 doors right side (2-axle)
Viale BRT and Torino, 2 doors left side and 2 doors right side (3-axle)
Viale BRT and Torino (15 m), 2 or 3 doors left side and 2 or 3 doors right side, (3-axle)
Viale Articolado, 3 doors left side and 3 doors right side (3-axle)

Dimensions

Length:

Torino: 11.53 m, 13.0 m, 13.1 m
Viale BRS: 13.0 m, 15.0 m
Viale BRT: 13.4 m
Viale Articolado: 19.0 m

Width: 2.60 m

Height: May vary depending on the market, powertrain and configuration.

Passenger area

Seating: Marcopolo seats as standard or customer choice, manual or automatic wheelchair lift at the middle door or manual in front door, four priority seats with folding armrests, location for wheelchair or pram, folding seats, reading lamp and air nozzles.

Equipment: Luggage rack, camera surveillance, infotainment system (Wi-Fi), interior LED lighting.

Roof hatches: Electric or fixed

Driver area

Seating: Heated driver seat ISRI (optional)

Instrument panel: Fixed

Support systems: Scania Driver Support, electropneumatic parking brake control, adaptive cruise control, vulnerable road user collision warning, blind spot warning, lane departure warning, hill-hold.

Equipment: Audio system, announcement system

Destinations signs

LED destination sign in front, side and rear

Climate system

Convactor circuit in passenger area, auxiliary heater (diesel or gas), defroster, separate or combined air conditioning for the driver, temperature-controlled ventilation and AC for passengers.

Doors and windows

Tinted windows, single or double-glazed side windows, double doors, inswing or sliding, doors at customer's choice.

Powertrain – Combustion, Euro 3

Biodiesel, HVO, diesel:

9-litre 250 hp (184 kW) 1250 Nm
9-litre 310 hp (228 kW) 1550 Nm

Fuel capacity (usable volumes): 140–360 litres, 180–560 litres (high articulated)

Powertrain – Combustion, Euro 6

Biogas, natural gas:

9-litre 280 hp (206 kW) 1350 Nm
9-litre 340 hp (250 kW) 1600 Nm

Fuel capacity: 1260–1875 litres

Gearbox:

6-speed fully automatic gearbox (ZF EcoLife 2)
12-speed manual gearbox with Scania Opticruise and retarder

Electrical system

Halogen or bi-xenon headlights, Bi-LED, LED daytime running, position and indicator lights, LED side and rear lights.

Battery 150, 180, 210 or 230 Ah or dual battery system
Alternator 150 A, 180 A, 2x150 A or 2x180 A

Brake and safety equipment

Disc brakes, electronic brake system (EBS), anti-lock brakes (ABS), traction control (TC), bus stop brake, hill hold, pad wear indicator, pipes manufactured from either rust-protected steel or high impact synthetics, separate air tanks for each circuit, exhaust brake with automatic control, rear view camera, fire extinguishing equipment in the engine compartment.

Suspension and wheels

Front suspension: Independent or rigid, kneeling front door, whole front or whole side, automatic or manual control, total raising and lowering

Rims: Aluminium or steel

Tyres:

Low entry: 275/70, 275/80, 295/80, 315/60, 315/70 (front)
275/70, 275/80, 295/80, 315/60, 315/70, 315/80 (rear)
275/70, 275/80, 295/80, 315/60, 315/70, 315/80, 385/65 (tag)
High floor: 275/70, 275/80, 295/80, 315/60, 315/70, 385/65 (front)
275/70, 275/80, 295/80, 315/60, 315/70, 315/80 (rear)
275/70, 275/80, 295/80, 315/60, 315/70, 315/80, 385/65 (tag)



SERVICE OFFERING

Our offering consists of a number of services for minimising emissions, increasing safety, and improving operating economy, focusing on areas like fuel efficiency and uptime. These services allow us to provide solutions to each operators' individual challenges and needs.

Scania's data services generates insight and create business value through anything from position and speed to performance and driving style. Scania's data API's comply with the rFSM standards 1.x and 2.x.

Driver services

Enables drivers to drive safer and more efficient, and can reduce the need for maintenance.

Scania Driver Training

Combines theory and practice, covering topics such as safe and efficient driving, not only to save energy but even regenerate energy. The training also handles other aspects of professional driving, always with a focus on profitability, fuel economy and reduced emissions.

Scania Driver Evaluation

An on-board device that assesses the driving style by comparing it to that of drivers operating in similar conditions. The result, which can be used to achieve long term improvements, is visible in the Scania Fleet Management Portal and Scania Fleet App.

Fleet management services

Through the Scania Fleet Management Portal and the Scania Fleet App, operators can gain access to valuable insights into the performance and status of their fleet. The data collected onboard the bus provides valuable insights into driving styles, productivity and economy. This level of tracking and diagnostics can bring significant benefits in terms of increased uptime, improved safety and reduced operating costs.

Scania Zone

A position-based system for real-time vehicle adjustments in pre-defined zones. It allows operators to ensure that each vehicle stays within the set speed limits, increasing city safety and lowering fuel consumption. Scania Zone is an optional add-on in Scania's fleet management system.

Repair and maintenance services

Having access to professional workshops and quality spare parts is key to keeping the vehicles in prime condition. Scania offers a range of repair and maintenance services:

Scania Flexible Maintenance

Uses real-time vehicle data to produce maintenance plans tailored to each vehicle's actual operation, meaning no underserving and no overserving. This is done by continually monitoring and analysing operational data to ensure maximum uptime and schedule maintenance customised to the operations, thus increasing productivity and decreasing disruptions.

Scania Fleet Care

The fleet operator receives a dedicated Fleet Manager from Scania equipped with advanced tools and systems, to optimise maintenance and prevent breakdowns based on operational data and vehicle data analysis.

Customer workshop services

Tailored collaboration services designed to facilitate workshop services for the operator by streamlining and quality assuring the workshop and processes to meet Scania's high standards.

Scania Marcopolo service team

In close cooperation, Scania and Marcopolo offer comprehensive and high-quality services to keep the vehicles in peak condition, increase utilisation and improve operating economy. Well-established and trusted service networks offer technicians regular service training with training material developed in multiple languages, assuring professional technical support 24/7.

Scania and Marcopolo are both suppliers operating on the global market, and provide spare parts through consignment stock, online ordering systems, and more.

Financial services

Flexible financing and insurance solutions that match operational needs, tailored to provide predictable costs and manageable risks – over the entire lifecycle of the vehicles.

Scania Financing

Tailored solutions for financing an expansion or a fleet renewal. Handled with professional knowledge of financial of the transport business and optimised for the local tax and legal environment.

Scania Insurance

Tailored solutions that, together with claims support service and Scania Assistance, will help get the vehicle back on the road quicker, safeguarding uptime – and peace of mind.