



Audace, Paradiso and Viaggio

SCANIA MARCOPOLO

FOR TRAVEL OPERATIONS



SCANIA



EFFICIENT, RELIABLE AND COMFORTABLE

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

Sustainable efficiency

Having the right vehicle for the operation and using it efficiently is the best way to minimise environmental impact. Scania's offering includes conventionally powered buses that run on commercially viable renewable fuels – biodiesel/FAME, HVO and biogas – in order to meet the requirements of all travel operators. Through high quality vehicles with innovative technical solutions and outstanding fuel efficiency, top-quality repair and maintenance services, and a range of driver services, we address fuel consumption from several angles, helping operators to reduce emissions.

Energy efficiency that lowers operating cost

Travel operators know the importance of keeping costs to a minimum, and fuel consumption is one of the main contributors to operating cost. An energy efficient powertrain can therefore offer significant savings. Scania develops and offers highly energy efficient powertrains. Compared to previous models, the new generation of Scania Marcopolo coaches can 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 enhanced engine efficiency and improved cruise control with active prediction. Beyond the powertrain, driving style is another major factor that affects fuel consumption. Our driver services typically reduce fuel consumption and emissions by as much as 10%, with the driveability of Scania Marcopolo coaches and our advanced driver assistance systems as well as our top-quality maintenance services resulting in additional savings.

Powertrains

The high floor Scania K-chassis is available with a wide range of energy efficient and reliable powertrains optimised for longer distance traffic.

Combustion, Euro 5	Output	Torque	Emissions control	Fuel options
9-litre	280 hp (206 kW) at 1900 r/min	1400 Nm (1000–1400 r/min)	SCR	Biodiesel, HVO, diesel
9-litre	320 hp (235 kW) at 1900 r/min	1600 Nm (1050–1400 r/min)	SCR	Biodiesel, HVO, diesel
9-litre	360 hp (265 kW) at 1900 r/min	1700 Nm (1050–1475 r/min)	SCR	Biodiesel, HVO, diesel
13-litre	410 hp (302 kW) at 1900 r/min	2150 Nm (1000–1300 r/min)	SCR	Biodiesel, HVO, diesel
13-litre	450 hp (331 kW) at 1900 r/min	2350 Nm (1000–1300 r/min)	SCR	Biodiesel, HVO, diesel

Fuel capacity: (usable volumes): 370–1000 litres

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
13-litre	410 hp (302 kW) at 1900 r/min	2000 Nm (1100–1400 r/min)	EGR	Biogas, natural gas

Fuel capacity: 1260–1875 litres (CBG/CNG)
560–1120 litres (LBG/LNG)

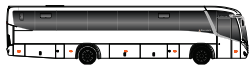
Gearboxes

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

Axles, doors and lengths

The Scania Marcopolo coach range are available in several variants, enabling them to meet different operational requirements.

Audace



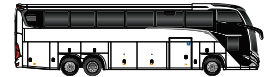
4x2, 13.2 m

Paradiso 1200



4x2 and 6x2, 13.1 – 15.0 m

Paradiso 1600 LD



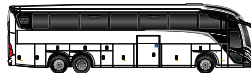
6x2 and 8x2, 14.0 – 15.0 m

Viaggio 900 and 1050*



4x2, 12.5 – 14.0 m

Paradiso 1350



4x2 and 6x2, 13.1 – 15.0 m

Paradiso 1800 DD



6x2 and 8x2, 14.0 – 15.0 m

Paradiso 1050

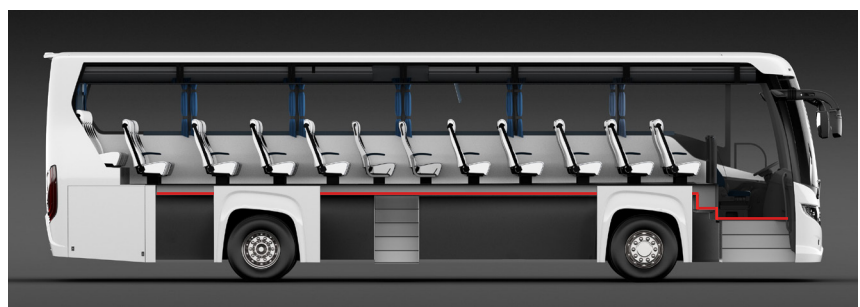


4x2, 13.1 – 14.0 m

*Available with K- and F-chassis. The information in the brochure is focused on K-chassis and is not always relevant for F-chassis.

Floor level

The K-chassis is suitable for a lot of different options of floor level. A common option is when the aisle in the coach is lowered, resulting in higher passenger comfort through fewer steps in the staircase, full standing height, and easier access to seats, without compromising on luggage volume.



PRODUCT DESIGN FEATURES

Our coaches 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%, while the addition of cruise control with active prediction and pulse and glide function contributes further savings.

Chassis frame construction

The strengthened front axle means that load capacity is increased from 7.5 to 8.0 tonnes. It also enables optimised weight distribution between the front and rear axles.



Front suspension technology

Without compromising on passenger capacity, the new independent front suspension offers excellent passenger comfort and increased load capacity.

Fuel tanks

For coaches with independent front suspension, new tank options are available in 370 or 1000 litres (usable volumes). For coaches with rigid front axle, the fuel tanks are available in 370 or 1000 litres (usable volumes).

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 and autonomous transport systems.

Interior

The interior has a modern, sophisticated design.

- Indirect and homogeneous passenger area lighting. The biolight psychotherapy options synchronize the lighting with the natural conditions of the day or night, creating a warm and relaxing environment.
- Lighting system of 100% LED turns on the reading lights automatically when boarding, making it easier to locate the seats.
- More ergonomic and comfortable seats and redesigned seat reclining system for precise adjustment in a smooth and silent manner.
- System that offers passengers different means of collective or individual entertainment with headphones, integrated USB and high definition digital image.
- ERV system with night vision, which replaces rear-view mirrors with cameras, eliminating blind spots.
- Structure designed and tested to ensure greater safety for passengers, with window sills 10% higher. Marcopolo was the first company in the world to carry out physical rollover tests on a double-decker vehicle, earning certification from the Vehicle Certification Agency (VCA), in compliance with the strictest safety standards.

Driver area

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

- Excellent driveability – great turning radius, advanced driver assistance systems, and improved assisted handling, steering and braking.
- Excellent ergonomics and reachability – with accessible controls and electronics integrated into a single central console.
- Increased safety with electropneumatic parking brake system.

Safety features

A range of functions support the driver whether they are on the open highway or in busy city environments.

- Adaptive cruise control with active prediction – assists the driver in keeping the distance to vehicles in front of the coach.
- Lane departure warning - detects lane markings and alerts the driver if the vehicle crosses the lane markings.
- Blind spot warning – detects other vehicles located in the driver's blind spot area.
- Electropneumatic parking brake control – locks the brakes until acceleration is activated, thereby preventing unintentional vehicle motion.
- Vulnerable road user collision warning – detects cyclist and pedestrians close to the vehicle.
- Underrun protection – rigid beams in the rear protect other road users and sensitive components on the chassis.

General

Door configuration:

Audace: 1 door
Viaggio 900 and 1050: 1 door
Paradiso 1050: 1 door
Paradiso 1200: 1 door
Paradiso 1350: 2 door
Paradiso 1600 LD: 2 doors
Paradiso 1800 DD: 3 doors

Dimensions

Lenght:

Audace: 13.2 m
Viaggio 900 and 1050: 12.5 to 14.0 m
Paradiso 1050: 13.1 to 14.0 m
Paradiso 1200: 13.1 to 15.0 m
Paradiso 1350: 13.1 to 15.0 m
Paradiso 1600 LD: 14.0 to 15.0 m
Paradiso 1800 DD: 14.0 to 15.0 m

Width: 2.60 m

Height:

Audace: 3.3 m
Viaggio 900 and 1050: 3.5 m
Paradiso 1050: 3.6 m
Paradiso 1200: 3.8 m
Paradiso 1350: 4.0 m
Paradiso 1600 LD: 4.1 m
Paradiso 1800 DD: 4.1 m

Passenger area

Seating: Marcopolo seats as standard or customer choice, manual or automatic wheelchair lift at the middle 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: ISRI driver seat

Instrument panel: Fixed

Equipment: Audio system, announcement system

Destinations signs

Placement: LED destination sign in front, side and rear

Climate systems

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

Powertrains - Combustion, Euro 5

Biodiesel, HVO, diesel:

9-litre 280 hp (206 kW) 1400 Nm
9-litre 320 hp (235 kW) 1600 Nm
9-litre 360 hp (265 kW) 1700 Nm
13-litre 410 hp (302 kW) 2150 Nm
13-litre 450 hp (331 kW) 2350 Nm

Fuel capacity (usable volumes): 370–1000 litres

Powertrains – Combustion, Euro 6

Biogas, natural gas:

9-litre 280 hp (206 kW) 1350 Nm
9-litre 340 hp (250 kW) 1600 Nm
13-litre 410 hp (302 kW) 2000 Nm

Fuel capacity: 1260–1875 litres (CBG/CNG)
560–1120 litres (LBG/LNG)

Gearbox:

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

Axles and suspensions

Configurations: 2-axle, 3-axle with tag axle (steered or non-steered) and 4-axle with double front axles.

Front axle:

Independent wheel suspension or rigid axle
Max. load capacity:
Independent wheel suspension 8.0 tonnes
Rigid axle 7.5 tonnes
Rigid axle 2 x 6 tonnes (with double front axles)

Rear axle:

Rigid axle, driven
Max. load capacity 13 tonnes

Tag axle:

Rigid axle, non-steered or steered.
Electrohydraulic tag axle steering
Max. load capacity bogie 19 tonnes (11.5 + 7.5 tonnes)

Full air suspension with electronic level control system (ELC)
Total raising or lowering of chassis height.
Kneeling instep, whole front or whole side.

Electrical systems

150, 180, 210 or 230 Ah or dual battery system, 24 V
Alternator 150, 180, 2x150 or 2x180 A

Brakes

Disc brakes or drum 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.

Wheels

Tyre size (front): 295/80, 315/70, 315/80, 385/65

Tyre size (tag): 295/80, 315/70, 315/80, 385/65

Tyre size (rear): 295/80, 315/70, 315/80

Aluminum or steel rims

Scania driver support, lane departure warning, lane change collision prevention, adaptive cruise control with active prediction, attention support, advanced emergency braking, electropneumatic parking brake control, vulnerable road user collision warning, blind spot warning and Scania Fleet Management which collects, saves and sends information from the vehicle for analysis.



Ensuring availability through reliable solutions

Reducing vehicle downtime and increasing utilisation is essential for the profitability of travel operators. Our coaches are well designed and built on proven technology and components, resulting in chassis and powertrains that are dependable, durable, and robust. That reliability is key to minimising time in the workshop and maximising utilisation of the vehicle. That is why we have made sure that sensitive and expensive components are protected in the event of a collision. Limiting damage and avoiding deformation of components for minimising costs, as well as complex and time-consuming repairs. Additionally, Scania Marcopolo coaches are designed to facilitate maintenance and to make it as efficient as possible. Here, Scania offers professional and proactive workshop services tailored to operational and individual vehicle needs, with excellent parts availability, to secure maximum uptime.

A premium driver area

A quality driver environment can play a crucial role in reducing the risk of incidents by maintaining driver comfort and alertness, while also offering a great workplace.

The driver area in Scania Marcopolo coach offers a spacious and ergonomic driving position, with integrated dashboard screens for all the driver's functions. A great turning radius, good visibility, and a load and weight distribution providing exceptional driving stability, while

advanced driver assistance systems give the driver good control of the vehicle through improved assisted handling, steering and braking. These systems include features such as attention support, lane departure warning, lane change collision prevention and adaptive cruise control with active prediction that help to prevent accidents or minimise potential damage.

Due to the demanding work environment, operators also face challenges when it comes to sick leave and employee retention; that is why we have designed the best possible work environment for drivers in terms of ergonomics, reachability, climate control, safety features and an overall quality feel.

A unique sensory passenger experience

Scania Marcopolo coaches have a forgiving suspension, smooth gearbox transition, powerful engines and well-balanced weight distribution that create a relaxing and comfortable passenger experience. It is a robust but light, quiet and reliable coach allowing a high degree of customization, with three types of washroom, various seat upholsteries, a list of on-board entertainment, including a Wi-Fi system, USB-port, monitors integrated into the seats, and interior fabrics in huge range of colours and finishes.

Can be customised to match all needs.



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 operator's individual challenges and needs.

Driver services

Enables drivers to drive safer and more efficiently, 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 coach 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 safety and comfort as well as 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 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 underservicing or overservicing. This is done by continually monitoring and analysing operational data to ensure maximum uptime and scheduling maintenance customised to operational needs, 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 expansion or fleet renewal. Supported by professional knowledge of transport business financing 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.

Scania's data API's comply with the rFSM standards 1.x and 2.x.