

DESIGNED FOR SUSTAINABLE AND EFFICIENT MOBILITY

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Based on more than a century of engineering experience, the new generation of Scania buses has been developed to meet the demands of today's and tomorrow's cities; energy efficient, available in a wide range of powertrains and offering 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, the new Scania 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 hybrid electric buses and engines running on all commercially viable renewable fuels — biodiesel/FAME, and HVO powertrains, in order to meet the requirements of all urban operations. Through high quality vehicles and innovative technical solutions, maintenance, and a range of Connected Services, we address fuel efficiency from all angles, helping operators to reduce emissions and fuel costs.

To create a positive passenger experience, Scania buses have independent front suspension that makes the ride more comfortable and a highly efficient climate system that minimises energy consumption and can handle just about all types of climates.

To help prevent accidents and create a safer city environment, Scania buses have built-in state-of-the-art 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. Scania develops and offers highly energy efficient powertrains. Compared to previous models, the new generation of Scania coaches offers fuel and emissions savings without compromising on performance. This is achieved in a number of ways, with the most significant savings coming from improved engine and gearbox efficiency, weight reductions and the addition of a start/stop function. Beyond the powertrain, driving style has a major impact on fuel consumption. Our driver training services can help your drivers to reduce fuel consumption by adapting their driving style to the characteristics of a Scania powertrain. In addition, our advanced driver assistance systems and top-quality maintenance services help to keep your coach on the road.

Ensuring availability through reliable solutions

Reducing vehicle downtime and increasing utilisation is essential to making urban operations cost-efficient. Our buses are built on proven technology and components, resulting in chassis and powertrains that are dependable, durable, and robust. That reliability is the key to minimising time in the workshop and maximising utilisation of the vehicle.

Our buses are designed and constructed to make sure that sensitive and expensive components are protected in the event of a collision. Limiting damage and avoiding deformation of components such as the steering and aftertreatment system, is critical for minimising costs, as well as complex and time-consuming repairs. Additionally, Scania buses are designed to facilitate maintenance and to make it as efficient as possible. Here, Scania offers professional workshop services with excellent parts availability to secure maximum uptime.

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, sick-leave, and improving employee retention. The driver area in a Scania bus is simply first-class and can even be said to be industry leading.

A great turning radius, good visibility, and an overall well-balanced vehicle makes for excellent driveability, while advanced driver assistance systems give the driver good control of the vehicle through improved assisted steering and braking systems. 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 designed the best possible work environment for drivers in terms of ergonomics, reachability, climate control, safety features and an overall quality feel.

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PRODUCT DESIGN **FEATURES**

The low entry Scania K-chassis meets the needs of operators on every continent. With total design and production control over chassis and powertrain, Scania delivers unrivalled reliability, durability and performance.

Battery temperature control

Battery pack temperature is controlled by a closed water cooling system. In very cold or very hot ambient temperatures, water temperatures are controlled by an electric heater or A/C cooler. The A/C circuit is separated from the climate control system of the bus and will not affect the comfort of the passengers or driver.

Driver area

The driver area has a completely new design offering improved ergonomics, safety, comfort, and driveability.

- Excellent ergonomics and reachability - pedal placement, leg space, driver height settings, all-angle step-less seat adjustments, adjustable instrument panel and flexible switch placement due to CANfunctionality.
- · Increased safety electropneumatic parking brakes.
- Excellent drivability great turning radius, advanced driver assistance systems, and improved assisted steering and braking assistance systems.
- Enhanced climate system improved. climate system with better airflow.

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.

Fuel tanks

New front fuel tanks available in several volume options suitable for urban/suburban operations, 140-360 litres (usable volumes). Also the shape of the fuel tanks is optimised for the interior layout to enable mounting of

Front suspension technology

Without compromising on passenger capacity, the new independent front suspension offers excellent passenger comfort and enables a wider aisle (900 mm) - resulting in new layout possibilities, improved passenger flow, space

The new rigid front suspension also increases passenger capacity and offers good passenger comfort

Chassis frame construction

The strengthened front axle, in combination with the ability to now use wider tyres, means that load capacity is increased from 7.1 to 8.2 tonnes. This allows higher passenger capacity. It also enables optimised weight distribution between the front and rear axles - especially important for electric vehicles. Additionally, chassis weight has been reduced by 2% (>100 kg) without compromising robustness contributing to lower fuel consumption.

The highly dependable, durable, and robust powertrains enable fuel savings achieved through a number of factors such as; · Longitudinally central mounted

engine in rear

Powertrain technology

- · Weight reduction
- Start/stop function

Safety features

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

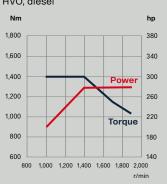
- Electro pneumatic parking brake locks the brakes until acceleration is activated, thereby preventing unintentional vehicle
- · Adaptive cruise control assists the driver to keep distance to vehicles in front.
- Vulnerable road user collision warning detects cyclist and pedestrians close to the vehicle.
- Blind spot warning detects other vehicles located in the driver's blind spot area.
- Underrun protection rigid beams in the rear protect passengers and sensitive



7-litre, 280 hpBiodiesel, HVO, diesel



9-litre, 280 hp HVO, diesel



9-litre, 320 hp Biodiesel, HVO, diesel

1,800

1.400

1,200

800



9-litre, 360 hp

Biodiesel, HVO, diesel

13-litre, 370 hp HVO, diesel



Powertrain - Hybrid electric

Hybrid - Biodiesel, HVO, diesel:

9-litre engine 320 hp (235 kW), torque 1600 Nm Electric motor 130 kW, torque 1030 Nm

Gearbox:

12-speed with Scania opticruise

ZF Ecolife 2 6-speed fully automatic gearbox

Powertrain - Combustion, Euro 6

Biodiesel, HVO, diesel:

7-litre 280 hp (206 kW), torque 1200 Nm 9-litre 320 hp (235 kW), torque 1600 Nm 9-litre 360 hp (265 kW), torque 1700 Nm

HVO, diesel:

9-litre 280 hp (206 kW), torque 1400 Nm 13-litre 370 hp (272 kW), torque 1900 Nm

Gearbox:

12-speed with Scania opticruise

ZF Ecolife 2 6-speed fully automatic gearbox

Axle and suspension

Configurations: 2-axle, 3-axle with tag axle (steered), 3-axle articulated

Front axle:

Independent wheel suspension or rigid axle
Max. load capacity 8.2 tonnes, articulated 8.0 tonnes

Rear axle:

Rigid axle, driven

Max. load capacity 13 tonnes

Centre axle (articulated):

Rigid axle

Max. load capacity 13 tonnes

Tag axle:

Rigid axle, steerable, non-driven

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 in the front or the whole side

Wheel

Tyre size (front):

275/70, 275/80, 295/80, 315/60, 315/70

Tyre size (rear):

275/70, 275/80, 295/80, 315/60, 315/70

Aluminum or steel rims

Electrical system

230 Ah or dual battery system, 24 V Alternator or 2x180 A

Brakes

Disc brakes, electronic brake system (EBS), anti-lock brake system (ABS), traction control (TC), bus stop brake, hill-hold, pad wear indicator, pipes manufactured from either rust-protected steel or high impact synthetics, seperate air tanks for each circuit, exhaust brake with automatic control

Support system

Scania Driver Support, electro-pneumatic parking brake, adaptive cruise control (ACC), vulnerable road user collision warning, blind spot warning

Powertrains

The low entry Scania K-chassis offers a wide range of energy efficient and reliable powertrains optimised for inner-city and suburban traffic.

Combustion, Euro 6	Output	Torque	Emissions control	Fuel options
7-litre	280 hp (206 kW) at 1900 r/min	1200 Nm (1050–1600 r/min)	SCR	Biodiesel, HVO, diesel
9-litre	280 hp (206 kW) at 1900 r/min	1400 Nm (1000–1400 r/min)	SCR	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	370 hp (272 kW) at 1900 r/min	1900 Nm (900-1340 r/min)	SCR	HVO, diesel

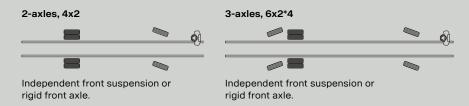
Gearboxes

ZF Ecolife 2 6-speed fully automatic gearbox

- Start/stop function, acceleration control
- 12-speed manual gearbox with Scania opticruise
- Acceleration control

Axles

The low entry Scania K-chassis is available in several variants, enabling it to meet different operational requirements.



Floor level

The low entry point and flat floor up to the central doors area offer the same accessibility as for the low floor version in the front and middle sections. In the rear section, a higher floor creates better view for passengers. The widened aisle contributes to increased accessibility, comfort and passenger flow.





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, especially important when it comes to electric vehicles, not only to save energy but even regenerate energy by optimal driving. Handles also 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.

Tachograph services

The fleet is monitored via the tachograph portal, facilitating compliance with regulations regarding driving and working time. A tool that provides in-depth insights into driver activities and vehicle use, thus helping operators maximise uptime, comply with laws and regulations and meet health and safety requirements for drivers.

Fleet management services

The data collected on board the buses provides valuable insight 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. Through the Scania Fleet Management Portal and the Scania Fleet App, operators can gain access to valuable insights and reap the benefits.

Scania Zone

A position-based system for real-time vehicle adjustments in predefined 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

A tailored collaboration service designed to facilitate for the operator by streamlining and quality assuring the workshop and workshop processes to meet Scania standards.

Financial services

Flexible financing and insurance solutions that suit the 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.