



HIGH FLOOR

SCANIA K-CHASSIS



SCANIA



DESIGNED FOR SUSTAINABLE AND EFFICIENT MOBILITY

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 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 for 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, 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, 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 his or her 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, both traditional and electrified. Compared to previous models, the new generation of Scania buses can potentially save up to 21% 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, weight reductions and the addition of a start/stop function. Beyond the powertrain, driving style has a major impact on fuel consumption. The drivability of Scania's 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

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 and sick-leave, while increasing employee retention. The driver area in Scania buses 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 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 designed the best possible work environment for drivers in terms of ergonomics, reachability, climate control, safety features and an overall quality feel.

Powertrains

The high floor Scania K-chassis offers a wide range of energy efficient and reliable powertrains optimised for suburban and regional traffic.

Hybrid electric (Euro 6)	Output	Torque	Emissions control	Fuel options
9-litre engine Electric motor	320 hp (235 kW) 130 kW	1600 Nm 1030 Nm	SCR	Biodiesel, HVO, diesel
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 1800 r/min	1900 Nm (900–1340 r/min)	SCR	HVO, diesel
13-litre	410 hp (302 kW) at 1800 r/min	2150 Nm (900–1340 r/min)	SCR	Biodiesel, HVO, diesel
Fuel capacity: 275–460 litres, 450–560 litres (articulated)				
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)

- Start/stop function, acceleration control

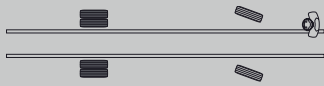
12-speed manual gearbox with Scania Opticruise and retarder

- Start/stop function, acceleration control

Axles

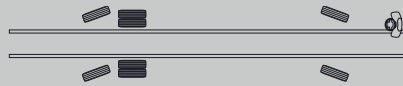
The high floor Scania K-chassis is available in several variants, enabling it to meet different operational requirements.

2-axes, 4x2



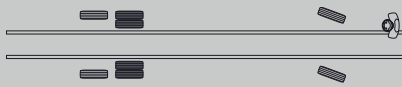
Independent front suspension or rigid front axle.

3-axes, 6x2*4



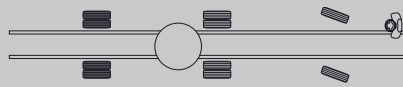
Independent front suspension or rigid front axle.

3-axes, 6x2



Independent front suspension or rigid front axle.

3-axes, 6x2/2 (articulated)



Rigid front axle.

Floor level

The bus has a flat floor that is reached via stairs when you board. A higher floor improves passenger comfort, views and possibility of luggage space.



PRODUCT DESIGN FEATURES

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

Battery packs

The battery packs for hybrids are placed on the roof, creating a well-balanced bus with excellent driveability and ride comfort.

Battery temperature control

Battery pack temperature is controlled by a closed water-cooling system. In very cold or very hot ambient temperatures, the water cooling is assisted by an electric heater or a A/C cooling respectively.

Driver area

The driver area has a completely new design with 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 CAN-functionality.
- Increased safety – electropneumatic parking brakes.
- Excellent drivability – great turning radius, advanced driver assistance systems, and improved assisted handling, steering and braking.
- Enhanced climate system – improved climate system with better airflow.



Front suspension technology

Without compromising on passenger capacity, the new independent front suspension offers excellent passenger comfort. The new rigid front suspension also increases passenger capacity while offering good passenger comfort in combination with a wider and lower aisle for double-decker buses.

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

For buses with independent front suspension, new tank options are available in 275 or 460 litres (usable volumes). For buses with rigid front axle, the fuel tanks are available in 275 or 410 litres (usable volumes).



Chassis frame construction

The strengthened front axle means that load capacity is increased from 7.5 to 8.2 tonnes. This allows higher load capacity. It also enables optimised weight distribution between the front and rear axles – especially important for gas vehicles.

Powertrain technology

The highly dependable, durable, and robust powertrains enable fuel savings of up to 21%, achieved through a number of factors such as;

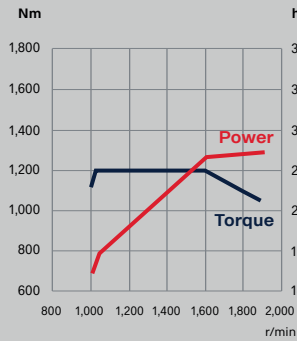
- Longitudinally central mounted engine in rear (-6%)
- Gearbox (-3%)
- Weight (-2%)
- Start/stop function (-6%)

Safety features

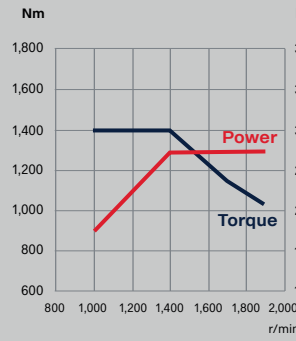
A range of functions supporting the driver in demanding urban environments.

- Electropneumatic parking brake - 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 protect passengers and sensitive components.

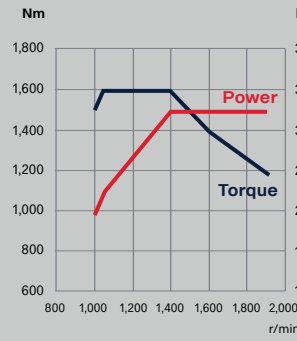
7-litre, 280 hp
Biodiesel, HVO, diesel



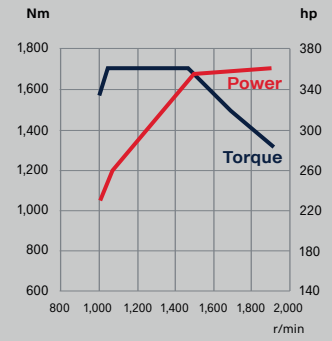
9-litre, 280 hp
HVO, diesel



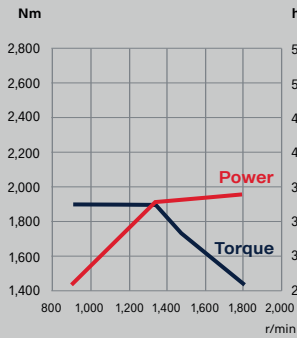
9-litre, 320 hp
Biodiesel, HVO, diesel



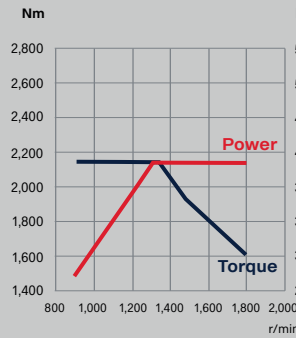
9-litre, 360 hp
Biodiesel, HVO, diesel



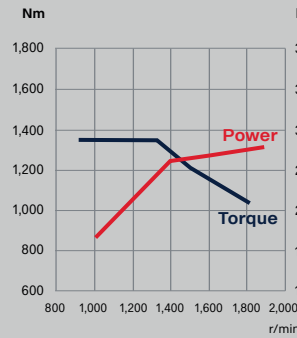
13-litre, 370 hp
HVO, diesel



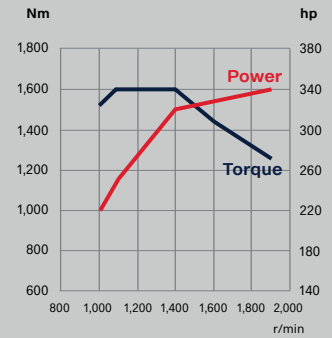
13-litre, 410 hp
Biodiesel, HVO, diesel



9-litre, 280 hp
Biogas, natural gas



9-litre, 340 hp
Biogas, natural gas



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 gearbox with Scania Opticruise

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
13-litre 410 hp (302 kW), torque 2150 Nm

HVO, diesel:

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

Fuel capacity: 275–460 litres, 450–560 litres (articulated)

Biogas, natural gas:

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

Fuel capacity: 1260–1875 litres

Gearbox:

12-speed gearbox with Scania Opticruise
6-speed fully automatic gearbox

Axle and suspension

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

Front axle:

Independent suspension or rigid axle
Max. load capacity:
Independent suspension 8.2 tonnes
Rigid axle 8.0 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, 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 in the front or the whole side

Wheels

Tyre size (front): 275/70, 275/80, 295/80, 305/70, 315/60, 315/70

Tyre size (rear): 275/70, 275/80, 295/80, 305/70, 315/60, 315/70, 315/80
Aluminum or steel rims

Electrical system

150, 180 or 230 Ah or dual battery system, 24 V
Alternator 150, 180, 2x150 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, separate 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



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 electrical 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

Scania's tachograph portal provides insights and information on driver activities and vehicle usage, thus facilitating regulation compliance related to health and safety for drivers as well as helping operators maximise uptime.

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 all that data and reap the benefits.

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. 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..