

**SETRA**

The Sign of Excellence.

The TopClass S 431 DT.  
The high art of travel.







# What drives us.

What really drives us is a passion for creating something greater. A passion that isn't entirely fulfilled by our wanting to design and build technologically excellent coaches. Our thought process begins at a much earlier stage. It puts people and their needs at the centre of every development we undertake: the passengers, the driver and of course the operator. Every Setra is specifically customised to your business plans and that is how we can ensure maximum over cost-effectiveness. That is ultimately the take-off point for what we do.

With exceptional comfort and superb spaciousness on two levels, the TopClass S 431 DT bears witness to the fact that luxury and efficiency are not mutually exclusive. The unrivalled TopClass travel experience and highest possible variability make it a truly exceptional phenomenon in the premium segment – and more cost-effective than two coaches at full occupancy.

Our commitment to building exceptional coaches is almost as old as the history of the coach itself. As the pioneer and progressive thinker Otto Kässbohrer invented the self-supporting coach body over 60 years ago, a far-reaching idea was born. One that would forever change the world of coaches and buses. Welcome on board!







# Efficiency and comfort, beautifully combined.

## The TopClass S 431 DT.

More seats, more comfort, more fascination: sometimes you just want more! An excellent reason to get to know the TopClass S 431 DT. Its dynamics and elegance make this coach the highlight of any fleet. Achieving perfection, it embodies the pinnacle of coach engineering: the double-decker.

Whether for city or long-distance tours, company excursions or school trips: with its high level of comfort on two levels, the S 431 DT is not only pleasingly luxurious, but with up to 93 seats\*, a WC and optional galley, it is just as cost-effective as it is versatile. The Setra double-decker coach is also an ideal vehicle for use on long-distance lines. Welcome to the world of the TopClass S 431 DT.

\* The number of seats depends on other equipment, also with regards to overall weight.  
To find out more, you can speak with your Setra partner.

# Welcome on board.

On the lower deck, fine materials and quality details await your travel guests. On the road, they'll be impressed by the low noise levels and the pleasant damping.

A full series of design features are behind this coach's exceptional feeling of spaciousness – but also some purely constructive ones. The TopClass S 431 DT has always been engineered to enable the maximum possible width – and this is how it can offer the ultimate in space as a double-decker.

**A warm welcome:** The passengers access the lower deck by crossing a low and comfortable entrance.

The front stairway to the panorama deck is positioned to the left behind the driver's station as standard equipment, or optionally to the right near the first entrance – which makes sense for long-distance applications.







On the panorama deck of the TopClass S431 DT, your guests will experience the journey from a fascinatingly different perspective. The generously large windows open up onto breathtaking views and all-around visibility. Here, too, unmatched comfort prevails. High quality and first-class workmanship are reflected in the coach's expressive form and materials language.

There are few things that determine the extent to which your passengers experience well-being as much as a coach's interior air comfort – especially on an upper deck. Thanks to the state-of-the-art heating and cooling concept, your travel guests always enjoy a pleasing level of air comfort – naturally throughout the whole interior of the coach.

The current generation of Setra seats shows your guests just how much you appreciate them. With their spring-mounted seat cushions and comfortable, ergonomically shaped backrests, up to 93 individual reclining seats\* provide maximum seating comfort and ease of use. More about the many available equipment options can be found in our special seat brochure.

\* The number of seats depends on other equipment, also with regards to overall weight. To find out more, you can speak with your Setra partner.



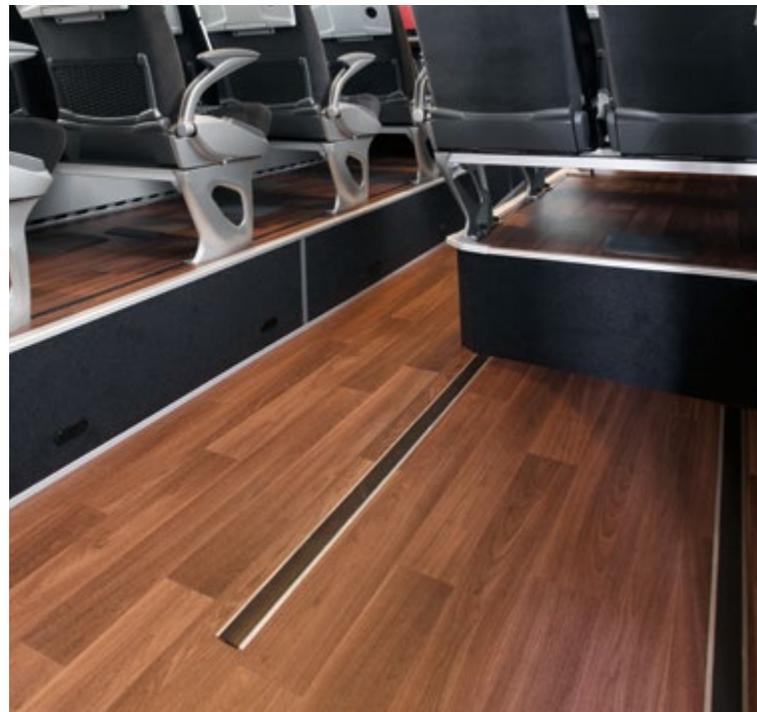
**A pleasing ascent:** The passengers reach the panorama deck by climbing two generous stairways – here the rear one.



**Comfortable all around:** The service sets offer individualised adjustment options for lighting, ventilation and air conditioning.

# Customised to your wishes.

High-quality, functional details and several comfort features characterise the coach's interior. From the exclusive service sets through to the customised on-board galley. The best TopClass S 431 DT of all is the one that best suits your company. And that is exactly why we offer you a wealth of equipment and amenity options to make your new double-decker something very special. Even when it comes to unusual requests, you can rely on our experience and expertise.





The LED displays in the passenger space provide information on the destination or next stop (option, image to the left).

On the lower deck, your passengers will find a spacious WC, designed for ease of cleaning (middle image).

The optional galley can be equipped to suit your individual needs and with convenience in mind (image to the right).



Next to the rear entrance, a spacious wheelchair and stroller or baby carriage position can be created, on request, with corresponding mounting possibilities (option, image to the left).

For long-haul applications, we will be happy to equip your TopClass S 431 DT for handicapped access as per ECE R 107. Using the extra-wide rear entry (115 cm) and the wheelchair ramp, passengers with reduced mobility can comfortably enter the coach (image to the centre left).

A spacious luggage compartment opens up behind the much widened flap (image to the centre right).

The driver's compartment is generously sized (image to the right).





## A driver's dream.

The spacious, state-of-the-art cockpit, with its high-quality, well considered equipment offers the best requisites for relaxed driving. Outstanding comfort and convenience, along with advanced ergonomic design play a key role here. A few examples to illustrate this are the intuitive instrumentation, the electronic vehicle key, and the leather-clad multifunction steering wheel which enable the driver to control many functions with a simple flick of the wrist. The cockpit's separate air-conditioning goes a long way towards ensuring the driver's well-being.

Comfort, quality and ergonomics characterise the cockpit of the TopClass S 431 DT. The many well conceived details in and around the driver's work station all contribute to a high level of comfort and convenience. The multifunction display enables a impeccable overview and perfect control. It offers the driver a high-resolution colour display with intuitive control and display logic.





**Easy online access:** The optional Coach MediaRouter enables your passengers to access the Internet via wireless LTE-speed WLAN. Via the router, you can also provide your passengers with media content such as movies, music and images, which they can retrieve for their personal on-board entertainment via smartphone, tablet or other.



**In the first row:** The comfortable attendant's seat can be adjusted seamlessly and it also offers a complete workstation.



**Look forward to arriving reliably:** The equipment in the cockpit turns the the drive into a truly pleasurable experience. The audio system, in combination with the optional navigation system, is a compact unit. A roller blind protects the instruments, creating a harmonious look.



**A central comfort feature in the cockpit:** The first-class driver's seat can be adjusted precisely to drivers of any stature, which makes for comfortable seating even on long trips. The driver's door is a standard-equipment feature.

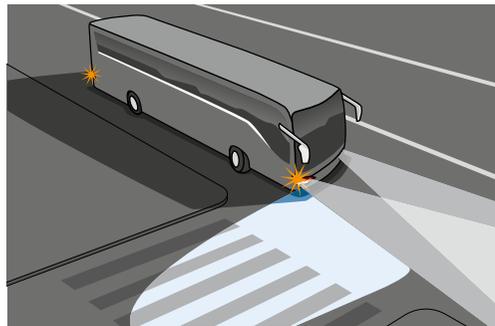


# Knowing you're protected – what a feeling!

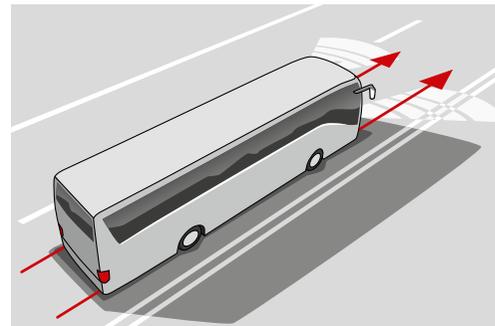
Discovering other cultures, meeting people, enjoying the landscapes and cities – for your travel guests, these are moments filled with emotions. And with a Setra TopClass S 431 DT, you can give them and the driver that great feeling of travelling safely.

State-of-the-art lighting technology with several low-maintenance LED lights, the Xenon light, the automatic cornering lights and exterior periphery lighting all contribute to the TopClass S 431 DT being a paragon of lighting safety in its class.

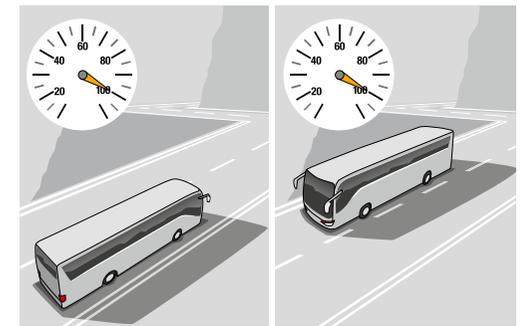
For example, a number of driving assistance systems are available, such as the Electronic Stability Program (ESP) with ABS and ASR, Continuous Braking Limiter (DBL) and Adaptive Cruise Control (ART) with Active Brake Assist 3 (ABA 3) and Lane Assist (SPA). Upon request, the new Attention Assist (AtAs) feature is available, which recognises driver fatigue and actively warns him to take a break.



**The cornering light:** At speeds under 40 km/h, the fog lights automatically become cornering lights as they light up curves ahead with a reflector.



**Lane Assist (SPA)** continuously measures the lateral distance to lane markings and alerts the driver through a vibration in the seat, if he begins to deviate from his lane.



**Continuous Braking Limiter (DBL)** largely prevents the downhill acceleration of the coach beyond a certain speed – thus stabilising its tempo.

# Amazingly cost-effective.

With the TopClass S 431 DT, we prove quite impressively that luxury, performance and cost-effectiveness are far from being mutually exclusive. The coach's Mercedes-Benz BlueEfficiency Power engine with environmentally friendly BlueTec 6 exhaust aftertreatment is not only powerful, quiet and future-proof, but also very frugal.

Furthermore, the engine's long maintenance intervals ensure low maintenance costs and high vehicle availability.

With its Predictive Powertrain Control (PPC) feature, Setra offers the driver a driver assistance system which, in addition to speed and brake control, intervenes in the automatic transmission control.\* Because the system knows the topography ahead thanks to GPS maps, it can proactively optimise switching times and cruise speed – especially in ascent and descents – and therefore act more fuel-efficiently.

The TopClass S 431 DT is also exceedingly cost-effective thanks to its exceptionally high passenger capacity, which considerably reduces investment costs per seat. All this brings you the operator not only crystal-clear economic benefits, but also a high resale value.

\* 95% of approx. 300,000 km of highways and federal roads in Europe are currently covered.



**Travelling more economically:** The Eco Driver Feedback (EDF, optional) feature gives the driver individual feedback on his personal driving style – the goal being to exploit the full potential in fuel savings.



**Consumption optimisation made easy:** Predictive Powertrain Control (PPC, optional), in combination with the PowerShift transmission, ensures an efficient speed curve and an optimal gearshift sequence based on forward-looking topography.

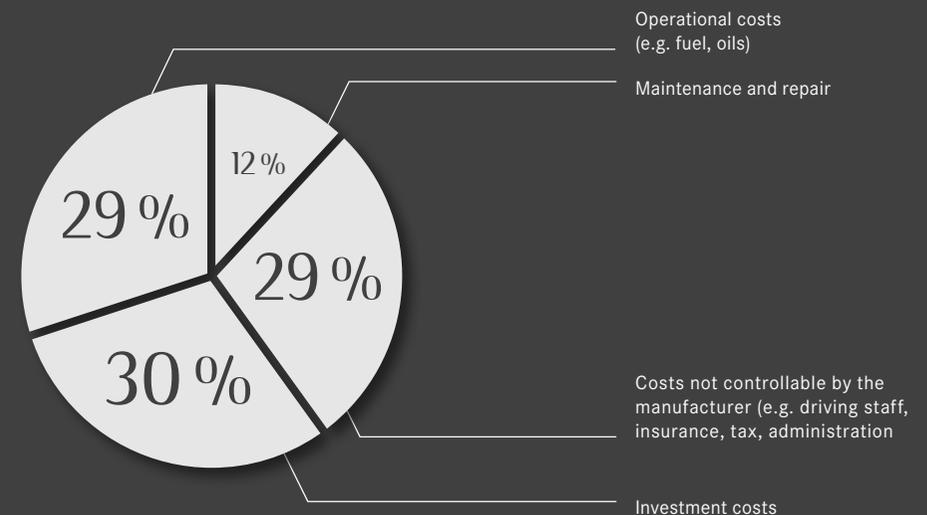




## Total Cost of Ownership (TCO): Your TopClass S 431 DT's overall cost-effectiveness.

A long-term investment, economical consumption, favourable maintenance costs: the TopClass S 431 DT is even more impressive when you consider its cost-effectiveness throughout its entire lifecycle and beyond. With every TopClass S 431 DT, you are investing in a coach with exceptionally high value retention and guaranteed residual value at *BusStore*. To ensure the best possible individualised cost-effectiveness, we make sure to adapt the coach's equipment to your needs, as well as financing, service packages and service contracts to your specific business application.

Consumption-optimised engines, perfectly matched transmissions, DriverTraining programmes and so much more all contribute to reduced fuel costs. Add to this long maintenance intervals which also reduce your operational costs, as well as the large *OMNIplus* Service Network. In short: your TopClass S 431 DT also delivers super performance for your bottom line.



**TCO cost shares using a TopClass S 431 DT.**

Assumptions: long-distance line service application, 3 years at 300,000 km, in the German market.

# Service and support for you and your Setra.

As valuable and customised as your coach.



## **OMNIplus Service on the road.**

As a professional, you need a partner who will ensure that your Setra is always kept on the move: a partner like OMNIplus. It offers you the most comprehensive coach- and bus-specific ServiceNetwork in Europe with over 600 authorised Service Points as well as the advantageous ServiceCard. The reliable 24h SERVICE is being further optimised thanks to telediagnosis and other advancements. With TireService and the Germany-wide BusPool, OMNIplus also delivers reliable assistance in the case of a breakdown.

## **OMNIplus Service at home.**

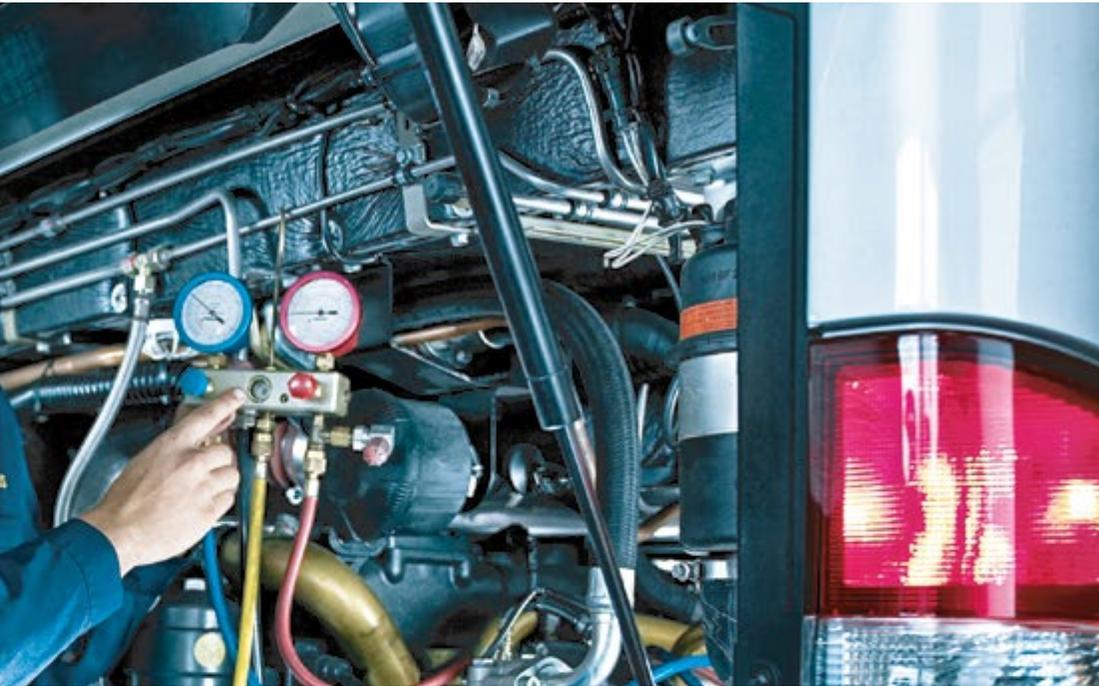
OMNIplus also makes sure that you save time and money. Increase your fleet's availability with the comprehensive Service BusDepot Management, and take advantage of our flexible BasicPlus and Premium Service Contracts for repairs and maintenance. You select what makes most sense for you need in terms of yearly mileage, and then combine it with the most suitable terms for your business.

Furthermore, OMNIplus is your contact for original parts and accessories as well as proven-quality, original spare parts.

## **Just the right training program.**

Our experienced OMNIplus training specialists will provide you with practical solutions to the challenges you are currently facing. Whether you're looking for safety, eco, vehicle or emergency training, whether you need to update your technical knowledge for repair and maintenance work, for drivers or workshop personnel: OMNIplus offers the right training to address any requirement. More information is available at [www.omniplus.com](http://www.omniplus.com)





**The ideal partner for your pre-owned.**

With *BusStore*, the brand for pre-owned vehicles in Europe, you can count on a reliable partner when buying a pre-owned coach or bus. And, if you decide on a new Setra coach, we'll accept your used vehicle as down-payment at competitive conditions. Your Setra contact person will be pleased to take care of all the details and handle the entire process for you with *BusStore*.  
[www.bus-store.com](http://www.bus-store.com)

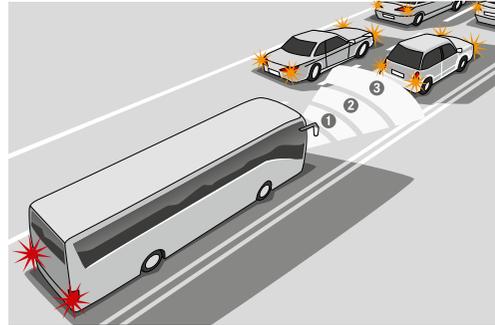
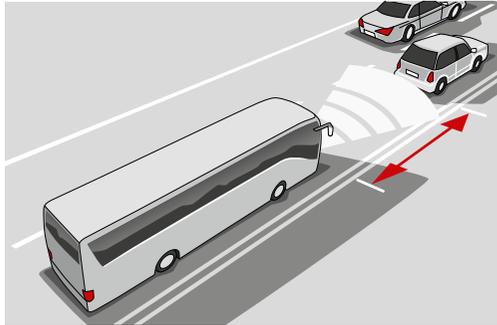
**On the move with FleetBoard Bus – efficiently and cost-effectively.**

With the modular telematics system from Daimler FleetBoard, you'll discover untapped potential savings on your coach tours. The bus- and coach-specific fleet management includes numerous features to optimise the quality of driving and driving processes. FleetBoard can make a significant contribution to reducing fuel consumption and vehicle wear, and to increasing your quality of service.  
[www.fleetboard.com](http://www.fleetboard.com)

**Financial services for coaches and buses.**

Mercedes-Benz Financial Services is the specialist for high-performance financial services for Setra coaches and buses. Because we know the industry and its requirements inside out, you can count on extremely competitive financing and leasing services. Our experts will advise you personally and develop highly attractive offers for you. For instance, over and above standard financing, we also offer seasonal rates or final instalment financing to enable you to remain financially flexible, or even a fully customised financing strategy to meet your individual needs. More information can be found at [www.mercedes-benz-bank.de](http://www.mercedes-benz-bank.de)

# The technology in detail. Find out more about the S 431 DT's key features and options.



## Adaptive Cruise Control (ART).

The Adaptive Cruise Control feature relieves the driver by maintaining a constant distance – defined by the driver – from the vehicle ahead, based on continuous measurements. This not only increases safety on country roads and highways, but also convenience.

A radar system, which guarantees outstanding functionality even under poor weather conditions and in the dark, monitors a distance of up to 200 meters in front of the vehicle and to the full width of the road. Should a variably defined security distance to the vehicle driving ahead be undercut, ART slows down the coach so that the safety zone is maintained. Many rear-impact collisions can therefore be avoided.

Unlike the emergency assistant Active Brake Assist 3 (ABA 3), ART initiates a smooth braking with maximum 20 percent of its possible power.

## Active Brake Assist 3 (ABA 3).

In cases where the distance from the front vehicle falls below that determined by the Adaptive Cruise Control (ART) feature, the emergency assistant Active Brake Assist (ABA) kicks in. The radar-controlled system continuously scans the road at a distance of between 0.25 and 200 meters. If the distance lowers dangerously and if an accident at this speed is deemed unavoidable, the system warns the driver in a 1<sup>st</sup> step using optical and acoustic signals. If he doesn't react, the ABA feature mechanically prepares the braking system for an immediate braking in a 2<sup>nd</sup> step. If the driver still doesn't react, the ABA independently initiates full braking in a 3<sup>rd</sup> step.

ABA 3 not only recognises vehicles driving ahead, but also non-moving obstacles. Here as well, the system initiates – similarly to the ABA warning cascade – a partial braking automatically. And in critical situations, a full braking if the driver doesn't react. This can be decisive, for instance, when you run into unexpected traffic congestion on a highway.

## Attention Assist (AtAs).

Attention Assist can detect early signs of driver fatigue and prompt him to take a break. At its core is a sensor that very accurately registers the driver's steering movements and steering speed. In the first few minutes of the drive, the system determines an individual driving behaviour pattern which is then continuously compared with the current steering behaviour and current driving situation. Based on this, the system can detect typical indicators of drowsiness and warn the driver with audible and visual cues.

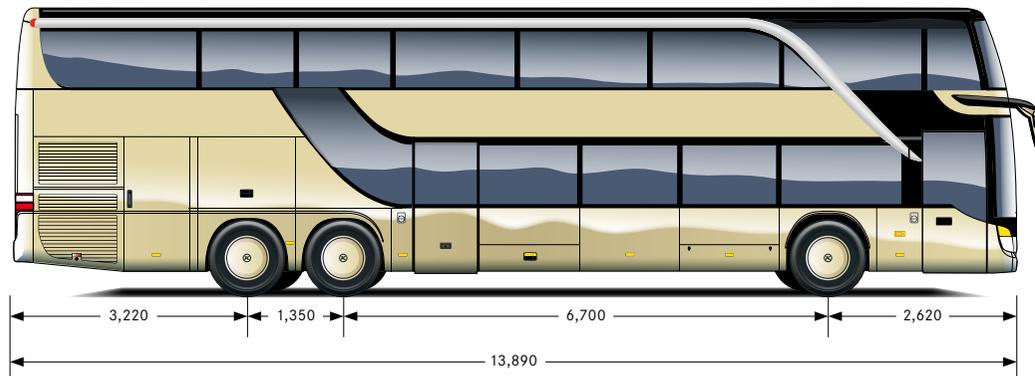
Attention Assist increases both driver and passenger safety, while increasing the resale value of the coach – since it already fulfils future safety regulations today.

## Tire Pressure Monitoring System (TPMS).

The Tire Pressure Monitoring System (option) makes checking tire pressure more convenient than ever. It displays the current pressure of each tire on the instrument cluster and warns the driver of any deviations from the optimal pressure. The system also warns the driver if the tire temperature is too high. It therefore helps prevent dangerous tire damage, while contributing to the high safety standard of the TopClass S 431 DT.

At the same time, the Tire Pressure Monitoring System increases the coach's cost-effectiveness, since it helps reduce wear and tear. The system also has a positive effect on fuel consumption.

# S 431 DT technical specifications.



Total height 4,000  
 Cockpit height 776  
 Width 2,550  
 Inside standing height above 1,687  
 Inside standing height below 1,828

Turning circle 22,978

All dimensions in mm

Engine	MB OM 471, Euro VI
Nominal capacity [kW]	375
Max. torque [Nm]	2,500 (1,100 1/min.)
Displacement [litre]	12.8
Type	6-cylinder in-line, vertical
Injection	Pressure-amplified X-PULSE common-rail fuel system
Transmission (Drive train brake management with continuous brake integration)	
Mercedes-Benz GO 250-8 PowerShift 3, automated	●
Chassis and brakes	
Front axle: Independent suspension, anti-roll bar	●
Driving axle: With anti-roll bar	●
Trailing axle: Active steering, independent suspension	●
Raising/Lowering system; can be switched separately on front and rear axle	●
Pneumatic disc brakes at all axles	●
ESP, EBS incl. ABS, ASR, Brake Assist (BAS), retarder, Continuous Braking Limiter (DBL)	●

Safety/Driver assistance systems	
Pendulum impact test acc. to ECE-R 29	●
Adaptive Cruise Control (ART) incl. Active Brake Assist 3 (ABA 3), Lane Assist (SPA)	●
Attention Assist (AtAs)	○
Tire Pressure Monitoring System (TPMS)	○
Eco Driver Feedback (EDF)	○
Predictive Powertrain Control (PPC)	○
Fuel tanks	
Fuel capacity [l]	approx. 510
AdBlue capacity [l]	approx. 35
Seats/Luggage compartment	
Standard seating "Setra Voyage"	83
Luggage compartment volume (standard, with WC, w/o driver's bunk) [m³]	ca. 8.3
Heating/Ventilation/Air conditioning (HVAC)	
Convactor heating at side walls	●
Temperature control at window-sill level	○
TopAir integrated air conditioning, incl. cockpit air conditioning	●

● Standard equipment    ○ Special equipment

**Important for you. Important for us. Technical Data Stored in the Vehicle.**

Electronic vehicle components (e.g. Airbag Control Unit, Engine Control Unit) contain data storage for vehicle Technical Data, including but not limited to Diagnostic Trouble Codes in the event of a malfunction, vehicle speed, braking force, or operating conditions of the Restraint System and Driver Assistance Systems in case of an accident (no audio and no video data recording). This data is either stored volatile, punctual as snapshot e.g. Diagnostic Trouble Codes, over a short period of time (a few seconds only) e.g. in case of an accident or in aggregated form e.g. for component load evaluation. The data can be read using interfaces connected to the vehicle. Trained technicians can process and utilize the data to diagnose and repair possible malfunctions. The manufacturer can use the data to analyze and improve vehicle functions. When requested by the customer, Technical Data can form the basis of additional optional services.

In general, data from the vehicle is transferred to the manufacturer or a third party only according to legal allowance, or based on a contractual customer consent in accordance with data protection laws. Further information regarding storage of vehicle Technical Data is provided in the vehicle Owner's Manual.

Setra Buses and Coaches naturally handles customer data confidentially.

**About the information in this brochure.**

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EvoBus GmbH · Mercedesstraße 127/6 · 70327 Stuttgart · Germany

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