

The Sign of Excellence.

The TopClass S 531 DT. Amazing Space.

SETRA

NU 5331



Amazing Space. The TopClass S 531 DT.

Its appearance is, to say the least: impressive. Its design: breathtaking. Its size: majestic. The TopClass S 531 DT is a coach that interprets space and luxury in an all-new, contemporary way. Its ultimate goal is to deliver unforgettable travel experiences. And, with this in mind, it offers everything that makes Setra double-decker coaches truly iconic.

With its versatile concept, it was designed to bring to life the most varied travel plans. Whether a luxurious discovery tour with discerning passengers, or a modern long-distance line. The S 531 DT inspires passengers everywhere with the utmost in comfort, drivers with its intelligent assistance systems and operators with its impressive efficiency.

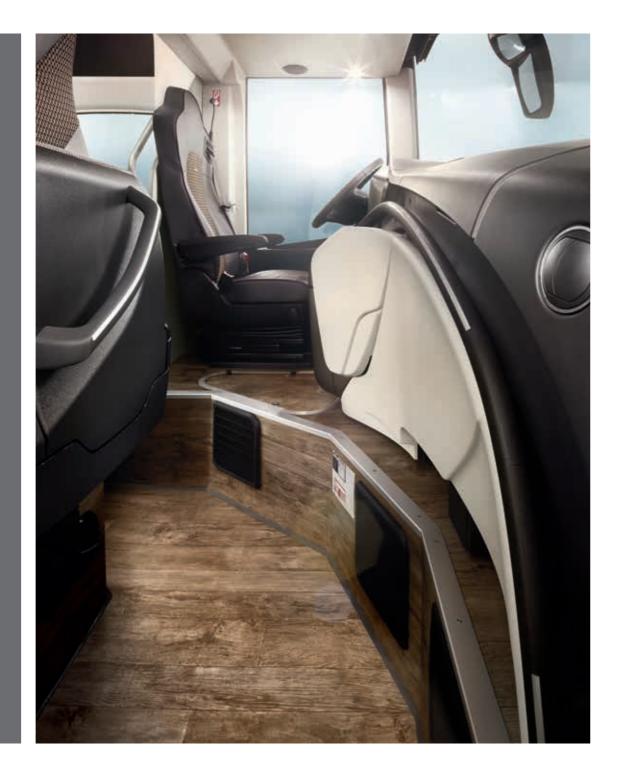


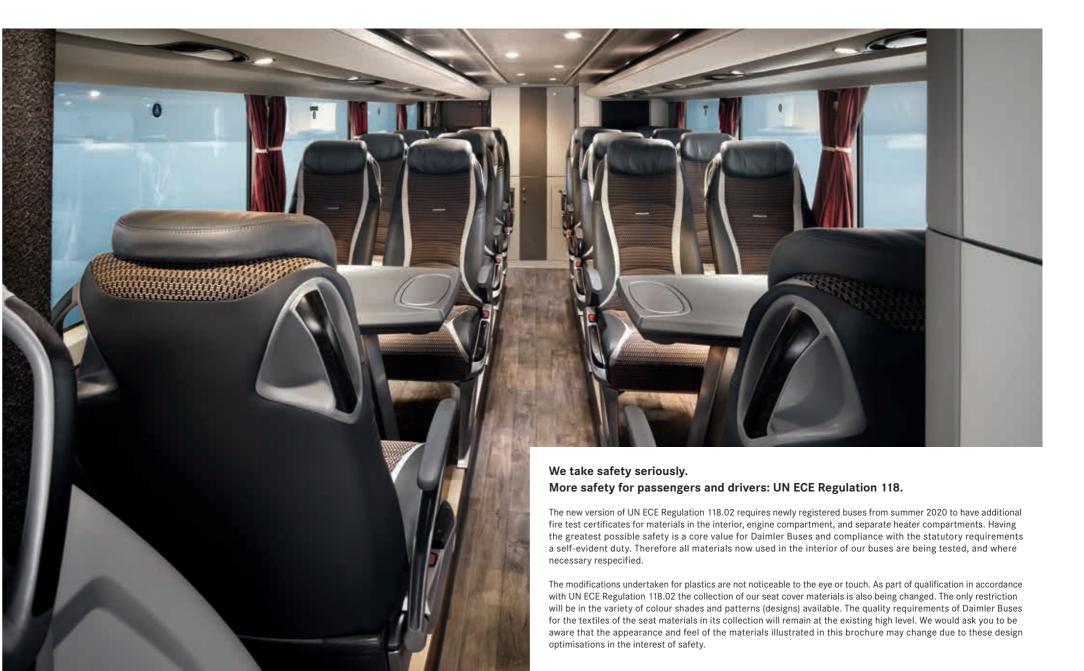
360° of truly amazing spaciousness. The S 531 DT's lower deck.

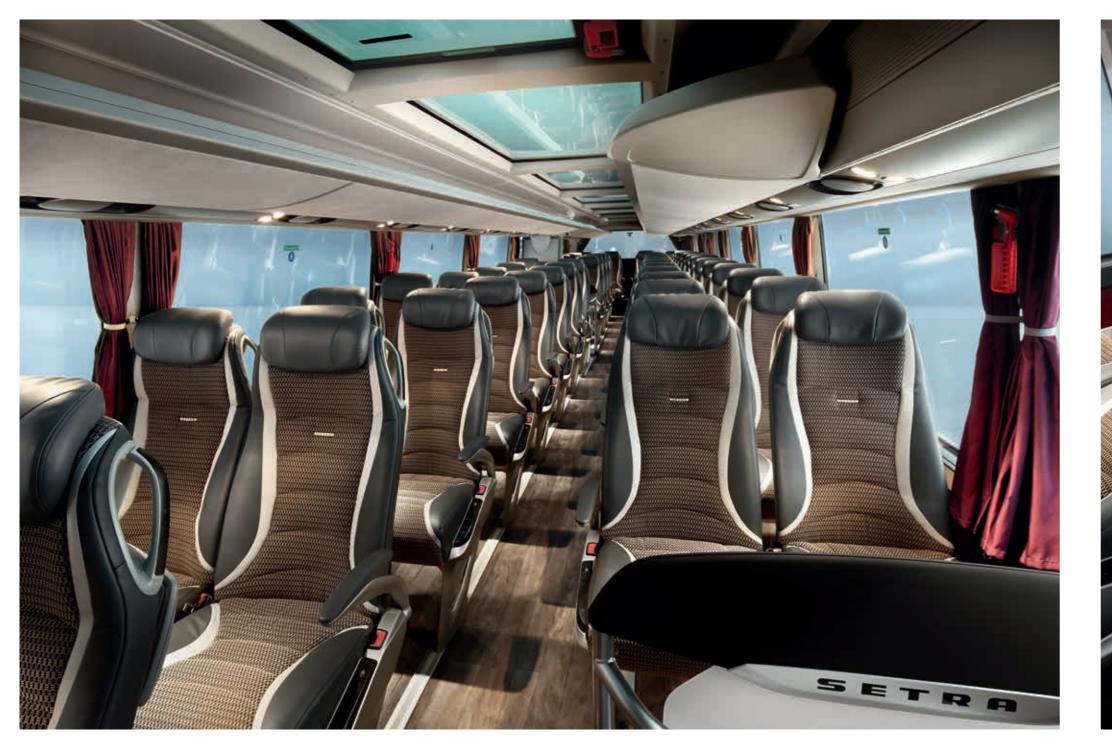
With a stature that touches all the senses – and an unrivalled experience from the very first moment – the S 531 DT not only meets the highest standards, it also embodies the fascination of coach travel as soon as you board the vehicle.

A pleasant fragrance* welcomes passengers as they enter the coach's bright, friendly interior. In the lower deck, passengers are surprised with an ambience that opens up an unexpected feeling of space. When the journey begins, the driving sounds are only a gentle whisper. In the comfortable seats, passengers can lean back entirely relaxed, while enjoying innovative luxury, such as the individual on-board entertainment – and feel like they have arrived long before reaching the final destination.

* Entrance fragrancing, option.









The TopClass times two. The S 531 DT's upper panoramic deck.

The highest level of comfort: those passengers who climb up through the bright, ample and elegantly designed stairways experience an unmatched feeling of space. Whereas the perfectly adjusted air conditioning* between the two decks remains completely unchanged, the perspective opens up impressively.

The modern cockpit transforms the front part of the panoramic deck into a scenic terrace with an amazing all-round view. And thanks to the TopSky** glass roof, passengers can also enjoy the endless sky above.

* The air-conditioning system and the refrigerator of your vehicle are filled with the refrigerant R-134a, and contain a fluorinated greenhouse gas. Notices with detailed information on the type of refrigerant used can be found on the respective unit. In connection please note the instructions in the owner's manual for your vehicle. For more detailed information, please see the relevant technical specifications of the TopClass 500.

* * Option.

Created to meet the highest standards: Yours.

Your S 531 DT's equipment.

The TopClass S 531 DT also shows its true size with all its available equipment possibilities. Whether maximum efficiency or simply the greatest possible travel comfort, your double-decker coach can be precisely adapted to a wide variety of travel concepts. We look forward to assisting you in customising your coach into something extra special.





The S 531 DT's service sets are easy to operate and stand out with their superb design.



The luggage compartment also provides ample space for luggage, even on extended luxury tours. The easy-to-operate flaps can be locked and unlocked easily either via remote control or the multifunction key.

The optional ceiling monitors can be clearly viewed from any position in the coach's interior. They offer a large diagonal screen of 48 cm (19"). With the DVB-T2 tuner (option), you can play TV programmes in HD quality or - via USB stick - films and music on the passenger monitors.



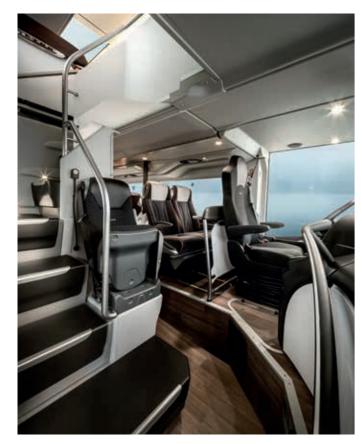












Image to the left:

Both stairways to the panorama deck are spacious and comfortable.

To ensure an ideal passenger flow with quick, efficient entry and exit, the front staircase to the panoramic deck can be optionally positioned on the right side of the vehicle.

Especially for regular line service, the S 531 DT can be equipped with an integrated destination display on request.

Image to the right:

The bright washroom has no steps and is therefore barrier-free. Its modern ergonomic interior design and pleasant indoor height ensure spaciousness and enhance comfort.

The on-board kitchen features a variety of storage areas and can be customised to specific requirements. For example, sausage cookers and coffee machines are available for long-distance trips, while vending machines can be incorporated for line operation.

High-level variability: Moving or removing seats creates up to two wheelchair spaces (depending on the equipment selected).

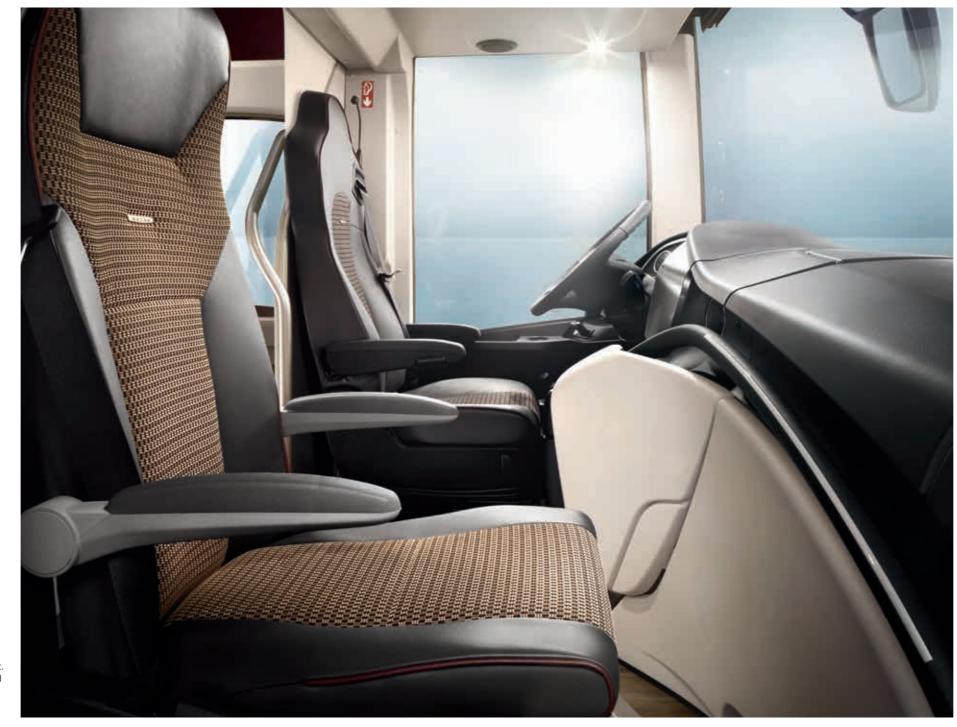
The S 531 DT's optional folding ramp ensures maximum barrier-free accessibility when entering and exiting.



Extras for a truly exceptional driving experience.

More features for the greatest possible driver comfort.

When you drive the S 531 DT, you will experience the comfort of a genuine TopClass. The multifunction key wirelessly takes on numerous monitoring and control functions. The Coach Multimedia System is designed to be easy to operate with a minimum number of controls. This ensures that the driver can fully concentrate on his main task: bringing his passengers safely to their destination. And with the multifunctional display, the driver always has an overview of key vehicle data.



The driver's and attendant's seats offer maximum comfort. For an especially harmonious interior, they can be matched to the passenger seats in terms of colour and design. An adjustable single-attendant seat with a 3-point safety belt and armrest is available for the tour guide.



The modern instrument cluster contains a high-resolution multifunctional display behind a pane of resistant real glass. With its intuitive operation and display logic, the colour display ensures a perfect overview and control.





The Coach Multimedia System (CMS), with its informative colour display, was especially optimised for coaches and buses and is beautifully integrated into the overall look of the cockpit. Features such as the navigation system's simple destination setting using a push/turn control knob significantly increase operating comfort.

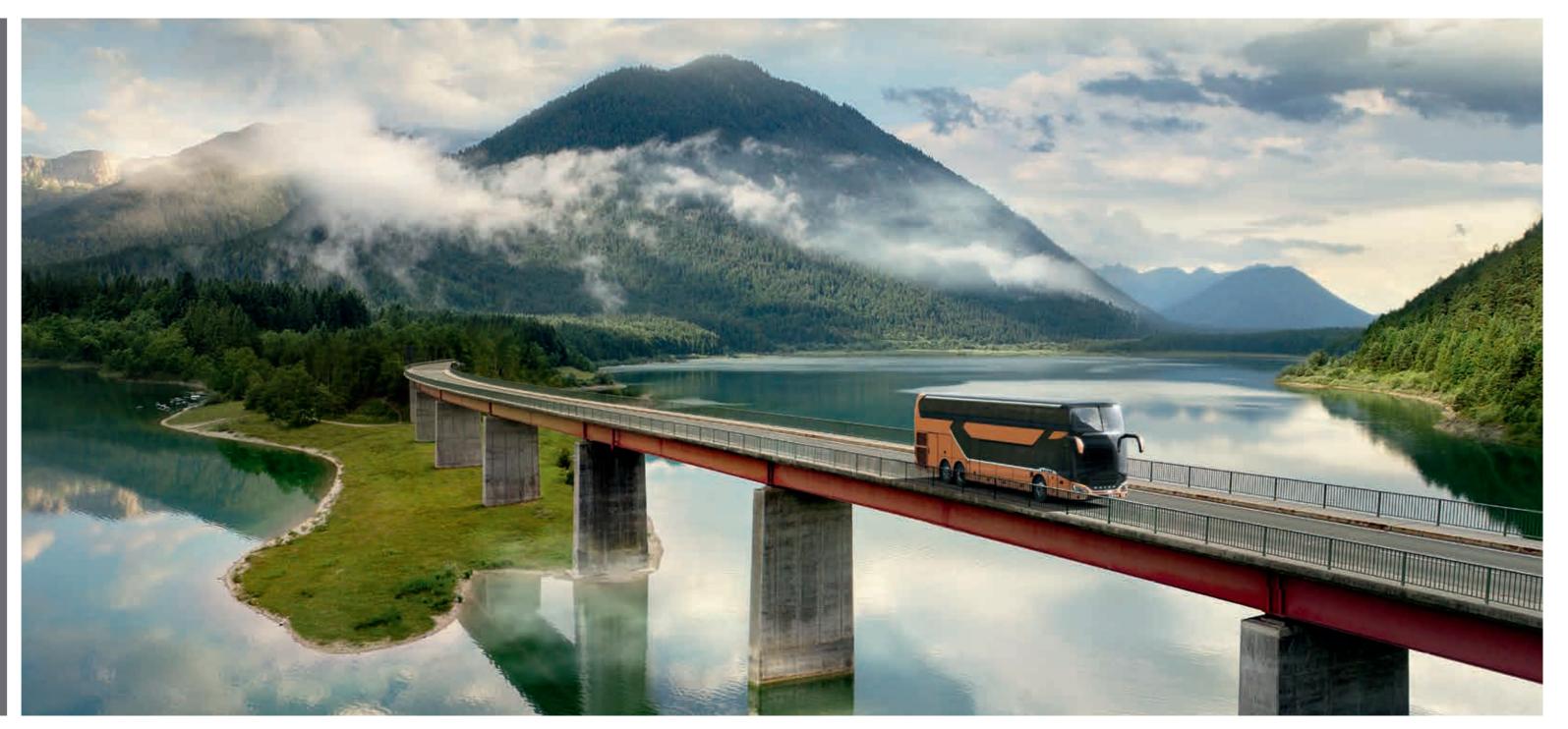
The Multifunction Key helps to best prepare for each leg of the route. On its display, vehicle data such as fuel and AdBlue[®] supply, tire pressure (in conjunction with the optional TPM feature), exterior and interior temperature as well as on-board electrical voltage can all be called up from outside the vehicle – even from a good distance away. Interior lighting, convenient opening, luggage compartment release and a light test can also be conveniently controlled.

Everything you need for relaxed travel.

With the S 531 DT, you will always know what is ahead – in terms of road traffic as well as your planning. With this in mind, the S 531 DT ensures marvelous relaxation not only for your passengers, but also for you. This begins with Setra's high safety standard which delivers the best possible protection during the journey. And this is where the S 531 DT is way ahead in the world of the double-decker coaches.

But this is not the only kind of security your TopClass offers. With the new **OMNI***plus* **Uptime service**, you also benefit from enormous planning security. The new technology automatically detects repair or maintenance needs and forwards the information to the service center. This reduces the likelihood of a breakdown to a minimum, while increasing availability to a maximum. And should a breakdown ever occur, the system is also on your side, to make sure that the journey can continue as quickly as possible.

You can also rely on your Setra for overall cost-effectiveness. This gives you the certainty you will be capitalising on the best possible cost performance over the coach's entire life. And, thanks to a guaranteed residual value through *BusStore,* you are ideally prepared for the future, even in this regard.



Top safety in the foreground. The TopClass S 531 DT's safety concept.

With the S 531 DT, the world is at your feet - and your passengers' too. No matter which route you take, you are well protected thanks to Setra's outstanding safety standard. The latest generation of driving assistance systems pick up on the environment more precisely than ever before, they react with foresight and prevent dangerous situations from arising in the first place.

The S 531 DT's state-of-the-art safety concept also takes into account the people outside the vehicle. The Active Brake Assist ABA 4 recognises pedestrians moving up to 80 metres in front of the vehicle, in almost all traffic situations. This ensures maximum safety in the city as well as on long-distance routes. Additionally, the S 531 DT is the world's first coach to provide the optional Sideguard Assist feature, which offers even more protection for pedestrians and cyclists when turning.



Performance de luxe.

En route cost-effectively in the TopClass S 531 DT.

If you believe that the S 531 DT is pure luxury, you are right in every respect. Except when it comes to operating costs. Because in fact, the double-decker coach uniquely combines amazing performance with outstanding efficiency. So that you can feel confident heading into the future.

Its Mercedes-Benz BlueEfficiency Power engine with BlueTec 6 exhaust gas aftertreatment is a powerful engine that delivers outstanding efficiency – offering the best requisites for entering environmental zones. The S 531 DT isn't only frugal in the engine compartment. The Predictive Powertrain Control (PPC)* feature, for example, optimises shifting times and cruise control speed through GPS connectivity, therefore saving fuel. Additionally, the S 531 DT's outstanding aerodynamics have been significantly improved compared to its predecessor. This results in considerable consumption advantages, especially on long-distance routes.

* Option. (Currently, 95% of the approximately 300,000 km of motorways and federal roads in Europe are already covered.)



Tested and proven on more than 60 million kilometres: The Mercedes-Benz BlueEfficiency OM 471Easy handling, low fuel consumppower engine achieves a power output of 375 kW (510 hp). The compact unit is designed for low
operating costs and low exhaust emissions. At the same time, it achieves impressive driving dynamics
with its high torque. Extremely long oil change intervals of up to 120,000 kilometres ensure favourableEasy handling, low fuel consump
has eight driving stages. The autom
high driving comfort and optimum of

Easy handling, low fuel consumption: The Mercedes-Benz PowerShift 3 automatic transmission has eight driving stages. The automatic shifting ensures precise gear selection, short shifting times, high driving comfort and optimum cost-effectiveness.

maintenance costs.





Your S 531 DT's overall cost-effectiveness.

A sustainable investment, economical consumption, low maintenance costs: The TopClass S 531 DT not only inspires with its design, comfort and versatility. Its cost-performance over the entire lifecycle is also impressive – the Total Cost of Ownership (TCO).

Capital costs.

With the S 531 DT, you are investing in a coach with an exceptionally high residual value. To ensure the greatest possible costeffectiveness, we also tailor the equipment, financing, service and service contracts exactly to your intended applications. On request, *BusStore* will guarantee the residual value of your coach and buy it back later – giving you the greatest possible planning security.

Energy costs.

The S 531 DT's highly efficient engine ensures low energy costs at maximum performance. The Mercedes-Benz GO-250 PowerShift 3 transmission, which is ideally optimised to the engine, further enhances fuel consumption. OMNI*plus* DriverTraining also contributes to low fuel consumption. Aerodynamics, however, have the greatest impact on energy consumption: the coach's aero-front and aero-rear enable an air resistance coefficient of $c_w = 0.35$. Depending on the application, this leads to considerable savings in fuel costs. And the higher the annual mileage, the greater your savings.

Maintenance and repair costs.

Long service intervals of up to 120,000 kilometres reduce costs and downtime. Thanks to the comprehensive OMNI*plus* Service Network with bus- and coach-specific Service Points, you remain mobile at all times. This also has a positive effect on the overall cost-effectiveness of your double-decker coach.

Even the assistance systems pay off, since more active safety means a reduced risk of accidents. This not only reduces the risk of personal injury, but can also save repair costs and downtime. After all, the S 531 DT only earns money when travelling with passengers – and not in the workshop.

We are continuously optimising all these cost factors. This results in the S 531 DT not only impressing your passengers, but also contributing more to your bottom line. Your Setra representative will be pleased to provide you with a customised estimate.



Capital costs Energy costs (e.g. fuel, oils) 37% 19% 10% 34% Maintenance and repair costs Costs not controllable by the manufacturer (e.g. driving staff insurance, tax, administration)

TCO cost shares using a \$ 531 DT as an example. Assumptions: 8 years at 80,000 km, in the German market, status: 2017.



Your new world of service. The OMNI*plus* ON portal bundles digital services.

OMNI*plus* ON connects the vehicle, driver, company and service. The OMNI*plus* ON portal gives you personalised access to a variety of services. OMNI*plus* ON advance ensures the greatest possible vehicle availability. OMNI*plus* ON monitor ensures efficiency in operational fleet management. OMNI*plus* ON drive simplifies many daily tasks for your drivers. Find out more in the OMNI*plus* ON portal at www.omniplus-on.com

OMNI*plus* **Uptime:** Thinks ahead. Keeps you on the road. Service for the greatest possible availability. With OMNI*plus* Uptime*, a further service is optionally available to you, which automatically identifies a repair or maintenance requirement and, depending on the urgency, forwards it to the pan-European OMNI*plus* 24h *SERVICE*, an authorised service center or to yourself. As a result, breakdowns can be reduced and workshop stays ideally planned. This increases the availability of your vehicles and lowers your overall costs. More information at **www.omniplus.com**

*A technical requirement for the use of OMNI*plus* Uptime is a built-in Bus Data Center.

omni*plus* ON

Service and support for you and your Setra. As valuable and customised as your coach.





OMNI*plus* Service at home.

With OMNI*plus*, you save time and money. Increase your fleet's availability with the service BusDepot Management, and take advantage of our flexible BasicPlus and Premium Service Contracts for repairs and maintenance. You select a yearly mileage, and then combine it with the most suitable terms for your business. Furthermore OMNI*plus* is your contact for original parts and accessories as well as for original, proven-quality replacement parts.

OMNIplus Service on the road.

OMNI*plus* ensures that your Setra is always kept on the move. For example, with the most comprehensive coach- and busspecific 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. Preventive service is possible with OMNI*plus* Uptime*. With TireService and the Germany-wide BusPool, OMNI*plus* also delivers reliable assistance in the case of a breakdown.

*A technical requirement for the use of OMNIplus Uptime is a built-in Bus Data Center.

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: OMNI*plus* offers the right training to address any requirement. More information is available at www.omniplus.com

Financial services for coaches and buses.

Mercedes-Benz Financial Services is the specialist for highperformance 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. Please contact your dealer for more information.

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

The technology in detail. Everything you need to know about the TopClass S 531 DT's important features and options.



Sideguard Assist.

The Sideguard Assist turning assistant feature considerably increases the safety of unprotected road users, especially in cities, since it helps the driver recognise critical situations in a timely manner when turning. The system operates in different stages: in a first stage, it informs the driver, and in a second stage, it provides an additional warning.

If a moving object is located in the lateral or side monitoring zone, the driver is informed optically. In the exterior mirror on the passenger's side, an LED light in a triangular shape illuminates yellow at the driver's height of vision. It intuitively directs the attention to the situation next to the vehicle. Additionally, a warning message appears in the central display.

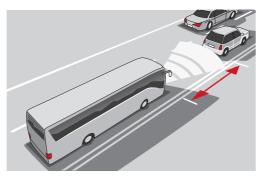
If the driver initiates or continues an action that could lead to a collision, an additional visual warning is given: the LED light flashes several times red with higher luminosity and then permanently. In addition to this, a tactile vibration acts as a warning in the driver's seat. Moreover, Sideguard Assist warns the driver of stationary obstacles in the coach's turning curve and can also take on the task of a lane changing assistant, in which case it operates with the same warning cascade.



Active Brake Assist 4 (ABA 4).

Regardless of the Adaptive Cruise Control (ART) function, Active Brake Assist 4 (ABA 4) warns the driver prior to a collision with an obstacle and independently brakes the coach. To this end, the radar-controlled system constantly scans an area of up to 250 metres of the lane in front of the coach. As the world's first system of its kind, ABA 4 also reacts to pedestrians.

Therefore, in addition to moving vehicles and stationary obstacles ahead (e.g. the tail-end of a traffic jam), the system also detects pedestrians within 80 metres. For example, should the distance to pedestrians be dangerously reduced, the system alerts the driver by means of visual and acoustic warning signals, while initiating partial braking through to a be avoided. standstill if the driver does not respond. The partial braking provides the driver with the possibility of avoiding the collision Unlike the emergency assistant Active Brake Assist 4 by means of a full braking or steering maneuver. Additionally, he can warn endangered pedestrians in time using the vehicle's horn.

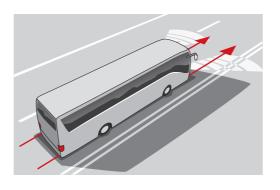


Adaptive Cruise Control (ART).

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 250 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

(ABA 4), ART initiates a smooth braking with a maximum of 20 per cent of its possible power.



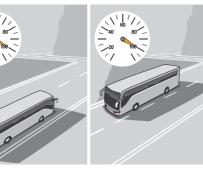
Lane Assist (SPA).

Driver fatigue ranks among the most frequent causes of accidents. The Lane Assist feature, at the heart of which a camera is positioned behind the front windscreen, continuously measures the lateral distance to side road markings. If the driver leaves his lane, the system warns him using a directional vibration in the seat cushion. For example, if he inadvertently heads to the right, the seat cushion vibrates on the right side.

To avoid false alarms, Lane Assist is only active at speeds of 60 km/h or above. This prevents problems along construction sites, where coaches hardly drive at speeds greater than 60 km/h. If the driver consciously changes lanes and puts the blinker on, Lane Assist recognises this and does not give a warning.

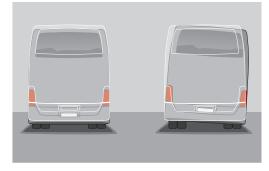


The Continuous Braking Limiter (DBL) safety feature prevents the vehicle from accelerating beyond a predetermined speed on inclines, stabilising the speed. To this end, it uses the retarder as a wear-free sustained-action brake. which prevents heating of the standard brake. Additionally, in this case the retarder is combined with a speed control. For the Continuous Braking Limiter, the driver can define a fixed speed, which should not be exceeded on inclines. Moreover the system prevents the allowed maximum speed of 100 km/h to be exceeded, through warnings in the central display and through braking interventions. Driving on inclines is therefore not only made safer but considerably more comfortable



Continuous Braking Limiter (DBL).





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.

Tire Pressure Monitoring (TPM).

Correctly filled tires are used to maintain driving safety and The TopClass 500 is equipped with an electronic level have a longer service life. With this in mind, the Tire Pressure Monitoring (TPM) feature helps to detect a decrease in pressure on one or more tires during driving. It can prevent tire damage and therefore increase safety as well as profitability.

air temperature in the interior of the tire. The collected data are transmitted at regular intervals wirelessly to a receiving antenna on the underbody and forwarded to the control unit. The tire pressure can be displayed on request in the multifunction display. The TPM prompts the driver to correct the tire pressure in a timely manner. If the tire pressure is less than 90% of the set pressure, a yellow warning message will appear. If it is less than 80% of the set pressure or if the pressure drops rapidly while driving, a red warning message is issued.

Level lowering and kneeling.

control which offers tangible benefits to both operators and passengers. Its control mechanism sources data from 4-way sensors which are positioned outwards on the rear axle. The electronic level control offers clear benefits to operators as well as passengers. On the one hand, at high To this end, a sensor permanently measures air pressure and speeds, the level of the coach is automatically lowered, which in interaction with the very aerodynamic design of the TopClass 500, contributes to optimised fuel consumption. On the other hand, for the first time with a coach, "kneeling" is used as standard equipment. This allows the level of the non-moving coach to be lowered on one side, to facilitate passenger entry into the coach.

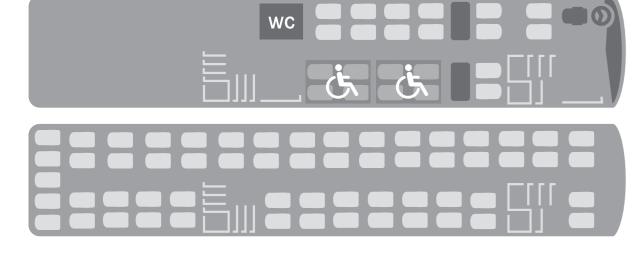
The S 531 DT: Technical data.



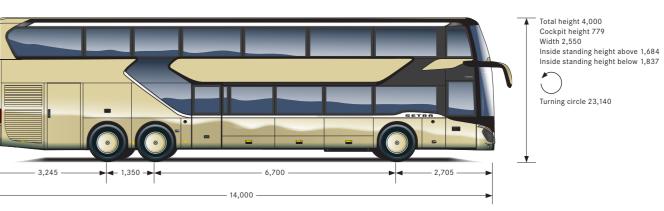
Touring floor plan: Lower deck and upper deck.

Room for your ideas.

Whether for a luxurious touring experience or simply extremely comfortably travel from A to B - whether as an overland or intercity coach, a bistro or a VIP coach, the TopClass S 531 DT range delivers amazing diversity and versatility. Different interior variants for up to 93 passengers make it an ideal partner for a variety of business models. You can see two interior examples on this page. Of course, so much more is also possible. Just talk to us - we are already looking forward to creating your customised coach.



Long-distance line floor plan: Lower deck and upper deck.





All dimensions in mm

Nominal capacity [kW]	375
Max. torque [Nm]	2,500 (1,100 1/min)
Displacement [litre]	12.8
Туре	6-cylinder in-line, vertical
Injection	Pressure-amplified X-PULSI common-rail fuel system
ansmission (Drive train brake management with continuous brake	e integration)
Mercedes-Benz GO 250-8 PowerShift 3, automated	•
assis/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)	•
el tanks	, i construction of the second se
Fuel capacity [I]	approx. 480
AdBlue [®] capacity [I]	approx. 40

Safety/Driver assistance systems	
Pendulum impact test acc. to ECE-R 29	•
Adaptive Cruise Control (ART) incl. Active Brake Assist 4 (ABA 4), Lane Assist (SPA)	٠
Attention Assist (AtAs)	0
Tire Pressure Monitoring (TPM)	0
Eco Driver Feedback (EDF)	0
Predictive Powertrain Control (PPC)	0
Sideguard Assist	0
Seats/Luggage compartment	
Standard seating "Setra Voyage"	83
Luggage compartment volume (standard, with WC, w/o driver's bunk) [m ³]	approx. 8.4
Additional storage volume [m ³]	≤ 1.2
Heating/Ventilation/Air conditioning (HVAC)	
Convector heating at side walls	•
Temperature control at window-sill level	0
TopAir integrated air conditioning, incl. cockpit air conditioning	•

Standard equipment
Special equipment

Important note: The air-conditioning system and the refrigerator of your vehicle are filled with the refrigerant R-134a, and contain a fluorinated greenhouse gas. Notices with detailed information on the type of refrigerant used can be found on the respective unit. In connection please note the instructions in the owner's manual for your vehicle. For more detailed information, please see the relevant technical specifications of the TopClass 500.

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.

About the information in this brochure

Changes to products may have arisen after this document went to press on 01.04.2018

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