

# MultiClass 500.

Technical data and equipment.

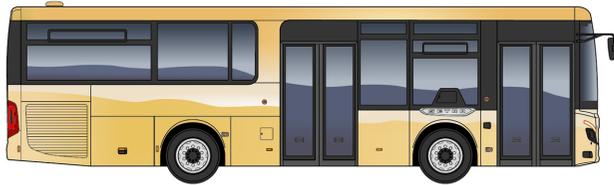


**SETRA**

The Sign of Excellence.

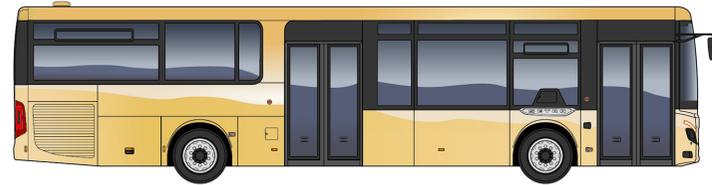
# MultiClass 500 models at a glance.

## MultiClass S 510 LE



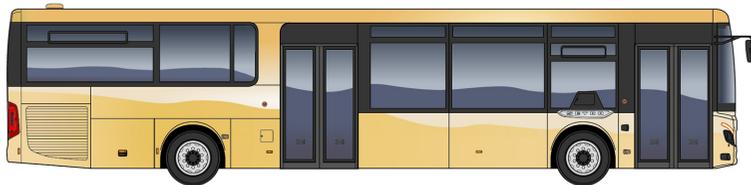
Length [mm]: 10.510      Cockpit height [mm]: 809  
Turning circle min. [mm]: 17.318      Width [mm]: 2.550

## MultiClass S 515 LE



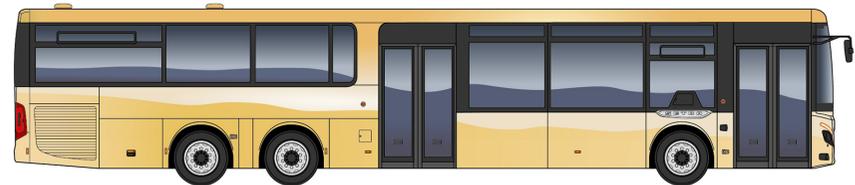
Length [mm]: 12.210      Cockpit height [mm]: 809  
Turning circle min. [mm]: 21.776      Width [mm]: 2.550

## MultiClass S 516 LE



Length [mm]: 12.920      Cockpit height [mm]: 809  
Turning circle min. [mm]: 23.642      Width [mm]: 2.550

## MultiClass S 518 LE



Length [mm]: 14.520      Cockpit height [mm]: 809  
Turning circle min. [mm]: 23.424      Width [mm]: 2.550

# Technical data and equipment at a glance.

	S 510 LE	S 515 LE	S 516 LE	S 518 LE
<b>Dimensions</b>				
Length [mm]	10.510	12.210	12.920	14.520
Length incl. mirrors [mm]	10.835	12.535	13.245	14.845
Width [mm]	2.550	2.550	2.550	2.550
Height incl. air-conditioning system [mm]	3.315	3.315	3.315	3.315
Inner stand height central aisle [mm]	-	-	-	-
Wheelbase front axle-drive axle [mm]	4.500	6.200	6.910	6.910
Wheelbase drive axle - trailing axle [mm]	-	-	-	1.600
Tyre size	275/70 R22.5	275/70 R22.5	275/70 R22.5	275/70 R22.5
Overhang at front [mm]	2.710	2.710	2.710	2.710
Overhang at rear [mm]	3.300	3.300	3.300	3.300
Turning circle [mm]	17.318	21.776	23.642	23.424
Turning circle min. [mm]	17.318	21.776	23.642	23.424
Ring width turning circles min. [mm]	6.049	6.828	7.153	7.145
Track circle minimal [mm]	13.413	17.859	19.723	19.382
Wheel impact front axle max. [°]	53/46	53/46	53/46	54/46-21.5/15.5
Swing-out dimension [mm]	884	698	641	1.502
Cockpit height [mm]	809	809	809	809
Usable volume / capacity AdBlue [l]	53	53	53	53
Capacity fuel tank left / right [l]	300	300	300	300
Luggage compartment volume [m <sup>3</sup> ]	-	-	-	-

	<b>S 510 LE</b>	<b>S 515 LE</b>	<b>S 516 LE</b>	<b>S 518 LE</b>
Additional storage area volume [m <sup>3</sup> ]	0,46	0,46	0,46	0,77
Floor height central aisle over roadway [mm]	336	350	350	350
Pedestal height [mm]	297	297	297	297
Entry height door 1 [mm]	307	309	310	310
Entry height door 2 [mm]	328	332	332	332
Step height entry 1 [mm]	-	-	-	-
Step height entry 2 [mm]	-	-	-	-
Door opening width 1 [mm]	905	905	905	905
Door opening width 2 [mm]	1.155	1.155	1.155	1.155
Slope angle in front [°]	7	7	7	7
Slope angle rear [°]	7	7	7	7

	<b>S 510 LE</b>	<b>S 515 LE</b>	<b>S 516 LE</b>	<b>S 518 LE</b>
<b>Transmission</b>				
Engine	OM 936 Euro VI	OM 936 Euro VI	OM 936 Euro VI	OM 470 Euro VI
Engine 2*	OM 936 Euro VI	OM 936 Euro VI	OM 936 Euro VI	-
Engine type	6-cylinder in-line-engine	6-cylinder in-line engine	6-cylinder in-line-engine	6-cylinder in-line-engine
Output [kW]	220	220	220	290
Output 2* [kW]	260	260	260	-
Max. torque [Nm]	1.200	1.200	1.200	1.900
Max. torque 2* [Nm]	1.400	1.400	1.400	-
At speed [1 /min]	1.200	1.200	1.200	1.100
At speed 2* [1 /min]	1.200	1.200	1.200	-
Displacement [l]	7,7	7,7	7,7	10,7
Displacement 2* [l]	7,7	7,7	7,7	-
EU emissions standard	VI	VI	VI	VI
Transmission	Mercedes-Benz GO 190-6	Mercedes-Benz GO 190-6	Mercedes-Benz GO 190-6	Mercedes-Benz GO 250-8, PowerShift 3, 8

	S 510 LE	S 515 LE	S 516 LE	S 518 LE
<b>Chassis</b>				
Steering	Power steering	Power steering	Power steering	Power steering
Front axle, type	ZF, independent wheel suspension			
Driven axle, type	Mercedes-Benz RO 440	Mercedes-Benz RO 440	Mercedes-Benz RO 440	Mercedes-Benz RO 440
Trailing axle, type	-	-	-	●
Front axle: independent suspension, anti-roll bar	●	●	●	●
Drive axle: with anti-roll bar	○	○	○	○
Trailing axle: active steering, independent suspension	-	-	-	●
Raising/Lowering system	○	○	○	○
Kneeling	○	○	○	○
Air suspension via electronic level control system (ENR)	●	●	●	●

	S 510 LE	S 515 LE	S 516 LE	S 518 LE
<b>Brakes</b>				
Pneumatic disc brakes on all axles	●	●	●	●
Electronic Stability Programme (ESP®)	● for class 2	●	● for class 2	● for class 2
Electronically controlled braking system (EBS)	●	● for class 2	●	●
Anti-locking system (ABS)	●	●	●	●
Brake Assist (BAS)	●	●	●	●
Acceleration Slip Regulation (ASR)	● for class 2			
Retarder limiter (RL)	●	●	●	●
Retarder	○	○	○	○
Automatic bus stop brake with pull-away lock	○	○	○	○
Parking brake	●	●	●	●
HOLD function	○	○	○	○

	S 510 LE	S 515 LE	S 516 LE	S 518 LE
<b>Safety and driver assistance systems</b>				
Rollover strength compliant with in ECE R29	● ECE-R29.03	● ECE-R29.03	● ECE-R29.03	● ECE-R29.03
Adaptive Cruise Control (ART)	-	-	-	-
Lane Assist (SPA)	○	○	○	○
Attention Assist 2 (AtAs)	●	●	●	●
Tyre Pressure Monitoring (TPM)	●	●	●	●
Preventive Brake Assist 2	○	○	○	○
Front Collision Guard (FCG)	-	-	-	-
Sideguard Assist 2	●	●	●	●
Frontguard Assist	●	●	●	●
Electronic Stability Program (ESP®)	● for class 2			
Reversing camera	●	●	●	●
Traffic Sign Assist	●	●	●	●
Reversing buzzer	○	○	○	○
Extinguishing system	●	●	●	●
Rain-light sensor	●	●	●	●
Flat wiper blades with water fed through wiper blade	●	●	●	●
Rollover strength compliant with ECE-R 66.02	●	●	●	●
360° Camera	○	○	○	○
MirrorCam	○	○	○	○
Active Drive Assist 2	-	-	-	-

	S 510 LE	S 515 LE	S 516 LE	S 518 LE
<b>Profitability</b>				
Predictive Powertrain Control (PPC)	○	○	○	○
Driver Score	○	○	○	○
Tyre Pressure Monitoring (TPM)	●	●	●	●

	S 510 LE	S 515 LE	S 516 LE	S 518 LE
<b>Transport capacity</b>				
Passenger capacity min.	18	22	23	23
Passenger capacity max.	99	129	135	156
Seating type Voyage	-	-	-	-
Seating type Voyage Plus	-	-	-	-
Seating type Voyage Ambassador	-	-	-	-
Seating type Transit	●	●	●	●
Seating type Passage	○	○	○	○
Seating type Route	○	○	○	○
Driver's seat GRAMMER Linea MSG 90.6 P, air-sprung	●	●	●	●
Driver's seat ISRI 6860, integrated pneumatic system, 3-point seat belt	○	○	○	○
Wheelchair space	○	○	○	○

	S 510 LE	S 515 LE	S 516 LE	S 518 LE
<b>Weight and fuel tanks</b>				
Capacity of fuel tank [l]	300	300	300	300
AdBlue® additive tank [l]	53	53	53	53
Gross vehicle weight [kg]	19.500	19.500	19.500	24.750
Axle loads, max. permissible front axle [kg]	7.500	7.500	7.500	7.500
Axle loads, max. permissible drive axle [kg]	12.600	12.600	12.600	12.600
Permissible weight trailing axle [kg]	-	-	-	5.750

	S 510 LE	S 515 LE	S 516 LE	S 518 LE
<b>Heating, air conditioning and ventilation</b>				
Blower heating for passenger compartment	●	●	●	●
Driver's area air conditioning	○	○	○	○
Under-seat fan heater	-	-	-	-
Waistline heater	-	-	-	-
EvoCool TopAir	-	-	-	-
EvoCool light Basic	○	○	○	-
EvoCool Basic	○	○	○	○
Cooling output, passenger compartment, EvoCool light Basic [kW]	24	24	24	-
Cooling output, passenger compartment, EvoCool Basic [kW]	32	32	32	39
Driver's area air conditioning [hp/kW]	8	8	8	8
Heating power driver's seat [hp/kW]	18	18	18	18
Heating output, passenger compartment, EvoCool light Basic [kW]	12	12	12	52
Heating output, passenger compartment, EvoCool Basic [kW]	48	48	48	-
Refrigerant filling capacity for EvoCool light Basic without driver workplace air-conditioning [kg]	2,8	2,8	2,8	-

	<b>S 510 LE</b>	<b>S 515 LE</b>	<b>S 516 LE</b>	<b>S 518 LE</b>
CO <sub>2</sub> equivalent for EvoCool light Basic without driver workplace air-conditioning [lbs/t]	4,004	4,004	4,004	-
Refrigerant filling capacity for EvoCool light Basic with driver workplace air-conditioning [kg]	4	4	4	-
CO <sub>2</sub> equivalent EvoCool light Basic with driver workplace air-conditioning [lbs/t]	5,72	5,72	5,72	-
Refrigerant filling capacity for 32 kW EvoCool Basic [kg]	6,5	6,5	6,5	-
CO <sub>2</sub> equivalent 32 kW EvoCool Basic [lbs/t]	9,295	9,295	9,295	-
Refrigerant fill capacity for 39 kW EvoCool Basic [kg]	-	-	-	7,5
CO <sub>2</sub> equivalent 39 kW EvoCool Basic [lbs/t]	-	-	-	10,725

	<b>S 510 LE</b>	<b>S 515 LE</b>	<b>S 516 LE</b>	<b>S 518 LE</b>
<b>Doors and glazing</b>				
Number of doors	2	2	2	2
Door position (A or B)	-	-	-	-
Outward swiveling door	●	●	●	●
Lift	-	-	-	-
Double glazed	○	○	○	○
Windscreen heatable	○	○	○	○

	S 510 LE	S 515 LE	S 516 LE	S 518 LE
<b>Lighting</b>				
Low beam	●	●	●	●
High beam	●	●	●	●
Daytime driving lights with LED technology	●	●	●	●
Headlamps with LED technology	●	●	●	●
Front fog lamp	●	●	●	●
Cornering light	○	○	○	○
Position lights	○	○	○	○
Ambient lighting luggage compartment	-	-	-	-
Ambient lighting for reverse driving	○	○	○	○
Ambient lighting for lift	-	-	-	-

● Standard equipment ○ Optional equipment \* Optional equipment

# Safety.

## Lane Assist (SPA)

With the aid of a camera system behind the windshield, the Lane Departure Warning system detects when the vehicle unintentionally leaves a marked lane. As soon as the vehicle crosses the markings, the driver is warned by a clear vibration on the corresponding side of the driver's seat.

## Attention Assist (AtAs) 2

Attention Assist (AtAs) 2 is a safety assistance system that can help prevent microsleep. It thus contributes to improved driving safety, especially on long journeys and when driving at night. The system warns the driver visually and acoustically when it detects typical signs of overtiredness or inattention and prompts him/her to take a break. The warning is independent of the electronic logging device (ELD).

## 360° camera

The 360° camera system consists of four cameras that capture the immediate vehicle environment and generate an indirect all-round view. The associated 10" screen is located on the A-pillar above the cockpit. This system allows pedestrians, cyclists and obstacles to be seen even in areas that are otherwise not visible to the driver. In this way, the system increases road safety, as collision hazards can be detected and, at best, prevented.

## Preventive Brake Assist 2

With Preventive Brake Assist 2, Daimler Buses offers the second generation of Active Brake Assist. The system warns of collisions with moving pedestrians and cyclists as well as stationary and moving objects. In the event of a serious risk of collision, the driver is alerted by a visual and acoustic warning and partial braking is initiated automatically.

## Sideguard Assist 2

Sideguard Assist 2 is a safety assistance system that supports the driver in critical situations when turning right or turning left when visibility is possibly restricted. The system is designed to help detect moving obstacles within the system limits, and warns the driver so as to avoid critical situations or reduce the consequences of accidents when turning off or changing lanes.

## MirrorCam

The modern MirrorCam system provides a clear and full view of the road traffic. Equipped with high-resolution cameras, the driving safety is improved and the risk of accidents is minimised. The extended field of vision enables the driver to see pedestrians, cyclists and other road users in the surrounding area. This eliminates the blind spot when turning right.

## Traffic Sign Assist (TSA)

The innovative Traffic Sign Assist offers maximum safety and comfort on the road. Thanks to GPS and camera support, the vehicle speed is constantly compared with the current traffic regulations.

## Frontguard Assist

Frontguard Assist is an advanced system that was specially developed to warn drivers of pedestrians located immediately in front of the vehicle and also to warn them of an impending accident. Whether you are pulling away or driving slowly (up to 9.3 mph), the intelligent assistance system can detect potential collisions with unprotected road users.

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