Limousine "DIPLOMAT" Discreetly armored premium class limousine based on Mercedes-Benz S450/500L V223













VPS "DIPLOMAT"

VPS proudly announces a new discreetly armored version of premium class limousine called DIPLOMAT based on all-new Mercedes-Benz S450/500 V223 4Matic in CEN B4

The S-Class stands for the fascination of Mercedes-Benz: legendary and traditional engineering expertise defines the luxury segment in the automobile industry. The new S-Class can be experienced with all the senses – seeing, feeling, hearing and smelling – while offering numerous innovations in the areas of driver assistance, protection and interaction. Mercedes-Benz is shaping the next generation of individual mobility for our times with innovations that place the focus on people. The new S-Class uses digitization for a car that responds empathetically to the needs and wishes of its driver and passengers.

Sometimes numbers say more than a thousand words!

□The turning circle is reduced by up to 2 metres with rear-axle steering compared to a model without it.

□The maximum steering angle is 10°.

27 languages are supported by "Hey Mercedes" with Natural Language Understanding (NLU).

□31 loudspeakers and eight exciters are included in the Burmester[®] high-end 4D surround sound system.

□Comfort on the front passenger seat is assisted by up to 19 motors (8 for adjustments, 4 for massage and 5 for ventilation, one for the lumbar support and one to move the monitor on the reverse).

- □10 different massage programmes are available in the new S-Class.
- The plug-in hybrid variant of the S-Class will have an electric range of up to 100 kilometers.
- The display area of the augmented reality head-up display corresponds to a monitor with a diagonal of 77 inches.
- The boot capacity has increased by 20 litres to up to 550 litres compared to the previous model.
- □With a C_d figure from 0.22,^[1] the S-Class is one of the world's most aerodynamic cars. Its drag coefficient is therefore lower than before, despite a larger frontal area 200 sq. cm.
- □Compared to the preceding model, elbow-room for the driver has increased by 38 millimeters and by up to 23 millimeters for rear passengers. Headroom in the rear has increased by up to 16 millimeters.
- □The resolution of DIGITAL LIGHT per vehicle is over 2.6 million pixels.
- □The computing power of MBUX (Mercedes-Benz User Experience) has increased by 50 percent compared to the system in the previous model. The memory bandwidth is 41,790 MB/s.
- □When a side impact threatens, the vehicle body can be raised by up to 8 centimetres by the E-ACTIVE BODY CONTROL suspension (optional) within a few tenths of a second.
- This is a new function of PRE-SAFE[®] Impulse Side:
- 17 step motors control the temperature and air distribution in the
- Thermotronic system.
- □ The 4-zone climate control Thermotronic Rear even has 20 step motors. These electric motors operate the air flaps.

□In the Active Ambience Lighting system, there is an LED in an optical fibre every 1.6 centimeters.

There are around 250 in all.

□The new OLED central display measures 239.06 mm x 218.8 mm, and has an active screen diagonal of 12.8 inches. The screen area is 64 percent larger than in the preceding model. The driver display measures 291.6 mm x 109.4 mm and has a diagonal of 12.3 inches.

□The tubular structure of the innovative rear airbag is around 16 litres, while the total volume of the deployed bag is up to 70 litres.

□The control units of E-ACTIVE BODY CONTROL analyse the driving situation and adjust the suspension 1000 times per second.

□The designation "S-Class" was officially introduced with the 116 series in 1972. More than 98 kg of components made from resource-conserving materials are used in the S-Class. The number of components containing recyclates is now 120 – more than twice as many as in the preceding model. Another 40 kg or so are made from renewable raw materials.

W/V223 is the internal designation of the new model series.

□The new tool used to micro-perforate the seats operates with 16,000 needles.

This executive discreetly armored limousine now and you will get a combination of exclusivity and reliable protection in one product!. This limousine will be built on base of on all-new Mercedes—Benz S450/500 V223 4Matic in B4 level protection in accordance with European standards 1999 CEN FB 1063 and CEN BR 1522/1523.

ARMORING PACKAGE B4

Ballistic glazing:

- □ Front, back and 6 side windows, thickness ± 21-23mm
- □All windows are developed, engineered and manufactured according to standards
- □All windows are tinted except front doors and windshield
- □All side windows will have the steel-glass solution to give them maximum safety
- □Tungsten heating integrated into windshield and rear glass
- □All windows are mounted and fixed
- Ballistic steel and lightweight composite materials:
- □4 doors with an additional structural reinforcement inside the doors
- □ Steel firewall between engine compartment and passenger compartment
- □ Steel bulkhead between passenger compartment and trunk
- □ Rear quarters from roof till bottom
- □ Rear wheel wells (arches)
- □A, B,C and D pillars from roof till bottom
- □The overlaps between the armor plates are made from steel
- □ Fuel tank protection
- □ Battery and EMC protection
- □Run-Flat tyre system
- □ Fire-extinguisher for engine compartment
- □Intercom communication system from driver side
- Extra options included into armoring package:
- □Front and rear door window are operable as far as technically possible minimum of 18cm

Anti-fragmentation floor protection class 1 against 1 x DM51 hand grenade
Electronics, lots are possible up on request. Blue lights intercom siren etc.
Other extra options: on request
NOTE: Roof without sunroof and without panoramic roof due to the armoring



B4 level protection is against .357 Magnum (9×33mmR) / .44 Remington Magnum (10.9×33mmR)

| | - | | ation for | For compo | | Type of Weapon | Cartridges | | Information al | bout Test Ammur | hition | Extracts taken from test Conditions | | |
|--|--------------------------------|--|------------------|--|---|---------------------|--|---------------------------------------|---|---|-----------------------|-------------------------------------|---|---|
| | Test Level VPAM APR 2006 | VPAM_PM2007 VPAM BRV 2009 VPAM BSW 2006 VPAM HVN 2009 | | DIN EN 1063 (BR) DIN EN 1522/23 (FB) VPAM BRV 1999 (VR) STANAG 4569 AEP55 (Level) | | | | Calibre | Type of bullet | Mass (g) Hardeness (HRC) | Manufacturer /Type | Shot Distance* *) (m) | Bullet Velocity (m/s) | Bullet Energy (joule) |
| | 1 | PM1 VR1 | BSW 1 HVN 1 | BR 1 FB 1 VR 1 (BRV 1999) | | | 1 | 22 Long Rifle | L/RN | 2,60 ± 0,1 | Winchester | 10 + 0,5 | 360 ±10 | 168 |
| tion | 2 | PM2 VR2 | FSW 2 HVN 2 | | | ۲ ' | 1 | 9mm Luger ^{s)} | FMJ/RN/S C Tinned | 8,00 ± 0,1 | DAG DM 41 | 5 + 0,5 | 360 ±10 | 518 |
| rotec | 3 | PM3 VR3 | FSW 3 HVN 3 | BK 2 FB 2 VR 2 (BRV 1999) | | | 2 | 9mm Luger ^{s)} | FMJ/RN/S C Tinned | 8.00 ± 0,1 | DAG DM 41 | 5 + 0,5 | 415 ±10 | 689 |
| Hand Gun Profection | 4 1) | PM4 VR4 | BSW 4 HVN 4 | BR 3 FB 3 VR 3 (BRV 1999) | | | - | .357 Magnum | FMJ/CB/S C | 10,20 ± 0,1 | Geco | 5 + 0,5 | 430 ±10 | 943 |
| | | | | BR 4 FB 4 VR 4 (BRV 1999) | | | • | .44 Rem. Mag. | FMJ*/FN/S C | 15,60 ± 0,1 | Speer | 5 + 0,5 | 440 ±10 | 151 |
| | 5 | PM5 VR5 | BSW 5 HVN 5 | | | -31 | - | .357 Magnum | FMs/CB | 7,10 ± 0,1 | DAG Special | 5 + 0,5 | 580 ±10 | 1194 |
| . 5 | 6 | PM6 VR6 | BSW 6 HVN 6 | 84+ | | | | 7,62 x 39 | FMJ/PB/F eC | 8,0 ± 0,1 core 3,60 | M 43 PS | 5 + 0,5 | 720 ±10 | 2074 |
| Assault Riffle Protection | 7 PM7 VR7 | PM7 | BSW 7 | BR 5 FB 5 VR 5 (BRV 1999) | Slanag Level 1 when in | -26-1 | + | .223 Rem ²⁾ (5,56 x 45) | FMJ/PB/S CP | 4,0 ± 0,1 | MEN 55 109 | 10 + 0,5 | 950 ±10 | 1805 |
| Pro | | VR7 | HVN 7 | BR 6 FB 6 VR 6 (BRV 1999) | addillan 5,56 x 45 mm (Typ: M193) | - 14- | | .308 Win (7,62 x 51) | FMJ/PB/S C | 9,55 ± 0,1 | MEN DM 111 | 10 + 0,5 | 830 ±10 | 3289 |
| | 8 | PM8 VR8 | 8SW 8 HVN 8 | | Stanag Level 2 | | | 7,62 x 39 | FMJ/PB/H Cl | 7,70 ± 0,1 core 4,10 hardness 65 | API BZ | 10 + 0,5 | 740 ±10 | 2108 |
| Armor Piercing | 9 | PM9 VR9 | BSW 9 HVN 9 | BR 7 FB 7 VR 7 (BRV 1999) | | - 18- | - | .308 Win ³⁾ (7,62 x 51) | FMJ/PB/H C | 9,70 ± 0,2 core 4,0 ± 0,1 hardness 62 ± 2 | MEN/CBC FNB, P 80 | 10 + 0,5 | 820 ±10 | 3261 |
| | 10 | PM10 VR10 | BSW 10 HVN 10 | | Stanag Level 3 | | - | 7,52 x 54 R | FMJ/PB/H CI | 10,40 ± 0,1 core 5,30 hardness 63 | B 32 | 10 + 0,5 | 860 ±10 | 3846 |
| *)The standards DIN EN 1063 (special glazing in civil engineering)and DIN AN1522/23 Windows and doors as well as STANAG 4569 AEP 55 and VPAM BRV 1999 are listed | | | | | | sted | FMJ* full metal jacket WC (copper) FMs | | | hard core wolfram-carbide (tungsten) full brass | | | | - dge Company, |
| **) When ne | cessary rega | arding vel | locity of the | ditions partly differ fr | | RN ro Nint, PB p | oned bullet ound nose ointed bullet at nose | l C.J.P. smail arm TDCC | Incendiary Permanent international commission for the testing of ms Dimension sheets of the C.J.P. | | | | to use Twist rates 178 Twist rates 254 Twits rates arb Test barrel with | itrary transition of |
| the shot distance can be adjusted in the test 1-12 | | | | | | L fu SC ie | ul lead rad-solt core nild-steel core | DAG Geco MEN | RUAG Ammo RUAG Ammo | otec, Germany otec, Germany isenhuette Nassau, | Germany | 6) | ensured | distance, its have to be ocity, oscillation oint |