The new S-Class.

Prof. Dr.-Ing. Thomas Weber
Member of the Board of Management
Group Research &
Mercedes-Benz Cars Development
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„The King is back!“
The new S-Class: **technological pacemaker** for automotive development
Three dimensions of new S-Class engineering

Efficient Technology

Intelligent Drive - „Networked with all senses“

S-Class Ambience – „The Essence of Luxury“
New S-Class powertrains
Beating the competition
Mercedes-Benz S 350 BlueTEC: V6 with the fuel consumption of a four-cylinder engine

190 kW (258 hp)
620 Nm
146 g CO₂/km
5.5 l/100km

Fuel Economy / Efficiency Label:
Mercedes-Benz S 300 BlueTEC HYBRID: Highly efficient and lots of fun to drive

Fuel Economy / Efficiency Label:

<table>
<thead>
<tr>
<th>Performance Attribute</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>kW</td>
<td>150 + 20</td>
</tr>
<tr>
<td>Nm</td>
<td>500 + 250</td>
</tr>
<tr>
<td>g CO₂/km</td>
<td>115</td>
</tr>
<tr>
<td>l/100km</td>
<td>4.4</td>
</tr>
</tbody>
</table>
Efficient not only in fuel economy but also in trunk space
Tailor-made hybrids for Mercedes-Benz customers worldwide

Global customers

Premium products for our customers worldwide

Diversity

Model lines

S ... E ... C

Body types

Gasoline & Diesel...

Full-hybrid & Plug-In...

Left- & Right hand drive...

Hybrid modules

E-motor

Power electronics

HV-battery

Hybrid module strategy allows for a cost-efficient customization.
The S 500 PLUG-IN HYBRID:
Premium performance with about 3-liter per 100 km

Emission-free driving in urban areas and pure driving comfort on long distances.
“3D-Body Engineering” allows for a new level of efficiency.
Mercedes-Benz sets the **benchmark** in aerodynamics

**Best in class:**
- M-Class \( c_d = 0.32 \)
- E-Class Coupé \( c_d = 0.24 \)
- E-Class Sedan \( c_d = 0.25 \)
- CLS \( c_d = 0.26 \)
- SL \( c_d = 0.27 \)
- B-Class \( c_d = 0.26 \)
- A-Class \( c_d = 0.26 \)
- CLA \( c_d = 0.22 \)
S-Class Body: high-quality **lightweight design** and top **crash safety**

- 3rd gen. **aluminum hybrid body shell**
- share of aluminum > 50%
- implementation of **structural foams**
- safety cell → **high-strength steel**
- highly sophisticated joining technology

- high level of **crash safety**
- outstanding **rigidity** → excellent handling
- low levels of **noise/vibration**
- up to 100 kg less weight
Three dimensions of new S-Class engineering

- **Efficient Technology**
- **Intelligent Drive** - „Networked with all senses“
- **S-Class Ambience** – „The Essence of Luxury“
All-Round Protection: Mercedes-Benz INTELLIGENT DRIVE

- PRE-SAFE® PLUS
  - Active Blind Spot Assist
  - 360° camera
  - Active Parking Assist
  - PRE-SAFE® Impulse

- DISTRONIC PLUS
  - with Steering Assist and Stop & Go Pilot
  - Night View Assist Plus
  - ATTENTION ASSIST
  - COLLISION PREVENTION ASSIST

- PRE-SAFE® Brake
  - with pedestrian detection and city brake function
  - Active Lane Keeping Assist

- BAS PLUS
  - with Cross-Traffic Assist
  - Adaptive Highbeam Assist Plus
Example: PRE-SAFE® Brake with Pedestrian Recognition
Example: PRE-SAFE® Brake with Pedestrian Recognition

6% of all accidents with pedestrians can be completely avoided.

In 41% the seriousness of injury will be significantly reduced.
Example: MAGIC BODY CONTROL
Example: MAGIC BODY CONTROL

Magic Body Control allows for a new level of driving comfort…
Example: Autonomous driving ...
Example: Autonomous driving - on the highway and in the city ...

The future comes as standard in your new S-Class!

Mercedes-Benz USP:

→ INTELLIGENT DRIVE with stereo camera and sensor fusion.
Three dimensions of new S-Class engineering

Efficient Technology

Intelligent Drive - „Networked with all senses“

S-Class Ambience – “The Essence of Luxury“
S-Class Ambience – “The Essence of Luxury”

- High quality materials
- Unmatched perfection
- Two large high-resolution TFT displays
Control and display concept: elegant and innovative new control center
Always on and connected with COMAND Online

COMAND Online features now:
- Internet connectivity
- Social media
- Live-Traffic data
First Class ambience not only in the front seats

Mobile office and center of wellbeing
First-Class rear suite in the new S-Class

New level of seating comfort
Mercedes-Benz vehicle architecture

Mercedes-Benz Rear-Wheel Architecture

Mercedes-Benz Front-Wheel Architecture
S-Class Family: Six variants with commonality rates of up to 90%

Mercedes-Benz Rear-Wheel Architecture

Mercedes-Benz Front-Wheel Architecture
S-Class Family **fully benefits from our common MBC module strategy**

Mercedes-Benz Rear-Wheel Architecture

Mercedes-Benz Front-Wheel Architecture

Module strategy:
- Electricity/Electronics
- Exterior
- Interior
- Powertrain/eDrive
- Body-in-white
- Chassis
Digital engineering: improved time to market, quality and cost/efficiency

Digital prototype
- Simulation
  - Passive safety
- Structural durability
- Thermal validation
- Thermal comfort
- Simulation NVH / CO2

High-tech test benches
- Driving simulator
- Wind tunnel
- Ride & handling
- Climate wind tunnel

Validation testing
Vision Accomplished
Disclaimer

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