



ASTON MARTIN

## Aston Martin DB11

DB11 is the first all new Aston Martin in over a decade. It takes all of the learning we have made over this time and deploys it to achieve significant improvements in the fields of mass reduction, packaging, stiffness, advanced aerodynamics and beautiful design. The team at Aston Martin used a combination of weight saving techniques including design optimization tools from a macro to micro level (-17kg), joint design and part integration (-15kg) and use of new, high strength alloys (-8kg).

Category:  
**Full Vehicle**

Application:  
**DB11 Body Structure**

Weight Saving:  
**40kg**  
(14.9%) total BIW weight  
saving versus base car

Methodology:  
**Design Optimization &  
Material Substitution**

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