



## Soueast Motor 2016 Soueast DX3

Under constraints of the existing body structure and material of the DX3, global lightweight thinking was required to reduce its weight. To simplify the process, a 1D model replaced a finite element model in the body-in-white simulation, resulting in a body structure that is 7.3% lighter. In addition, each bracket in the suspension system was analyzed independently using topology optimization, and cast-iron was replaced with aluminum alloy to provide 63% weight savings,

Category:  
**Full Vehicle**

Application:  
**2016 Soueast DX3**

Weight Savings:  
**23 kg**  
lighter than the  
baseline design

Methodology:  
**Design Optimization**

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