



## Powertrain

# Carbon Fiber Torque Tube

### *OEM/Vehicle*

**Mercedes-Benz GmbH**  
**2017 Mercedes AMG GT R**

### *System Supplier*

**ACE Advanced Composite Engineering GmbH**

### *Material Processor*

**ACE Advanced Composite Engineering GmbH**

### *Material Supplier*

**Huntsman**

### *Resin*

**Huntsman 8625 epoxy**



This CFRP torque tube is unique in its performance, complexity, dimensions and manufacturing process and has been developed for extreme lightweight construction and vehicle performance. Extreme lightweight construction (-40%), highest stiffness and NVH performance, high safety reserves, temperature load up to 200 degrees, and monolithic implementation of the complex structure in a one-shot production step. It was produced with a new process (first time in auto industry) that is a combination of resin transfer molding and a process from blow molding flexible tubes. The component was inflated in the interior of the tool by vacuum and overpressure. The injection from the resin takes place from the outside.