



Process/Assembly/Enabling Technologies

Integrated Tire Carrier, Rear Camera & Brake Light Assembly

OEM/Vehicle

Fiat Chrysler Automobiles
2018 Jeep Wrangler

System Supplier

TMD - Grammer AG Group

Material Processor

Leggera Technologies

Material Supplier

Dupont

Resin

Zytel ST 801 AW PA66

Tooling/Equipment Supplier

Leggera Technologies



This hybrid composite technology utilizes magnesium injection molding for higher structural strength with reduced weight & polymer over molding for improved impact and corrosion resistance. A 60% weight savings is achieved compared to metal stamping and a 20% weight savings is achieved compared to die casting processing methods. A cost savings of 20% is achieved with an improved load rating from 85 lbs to 115 lbs. The new design eliminates the need for a steel bracket for an indirect cost savings.