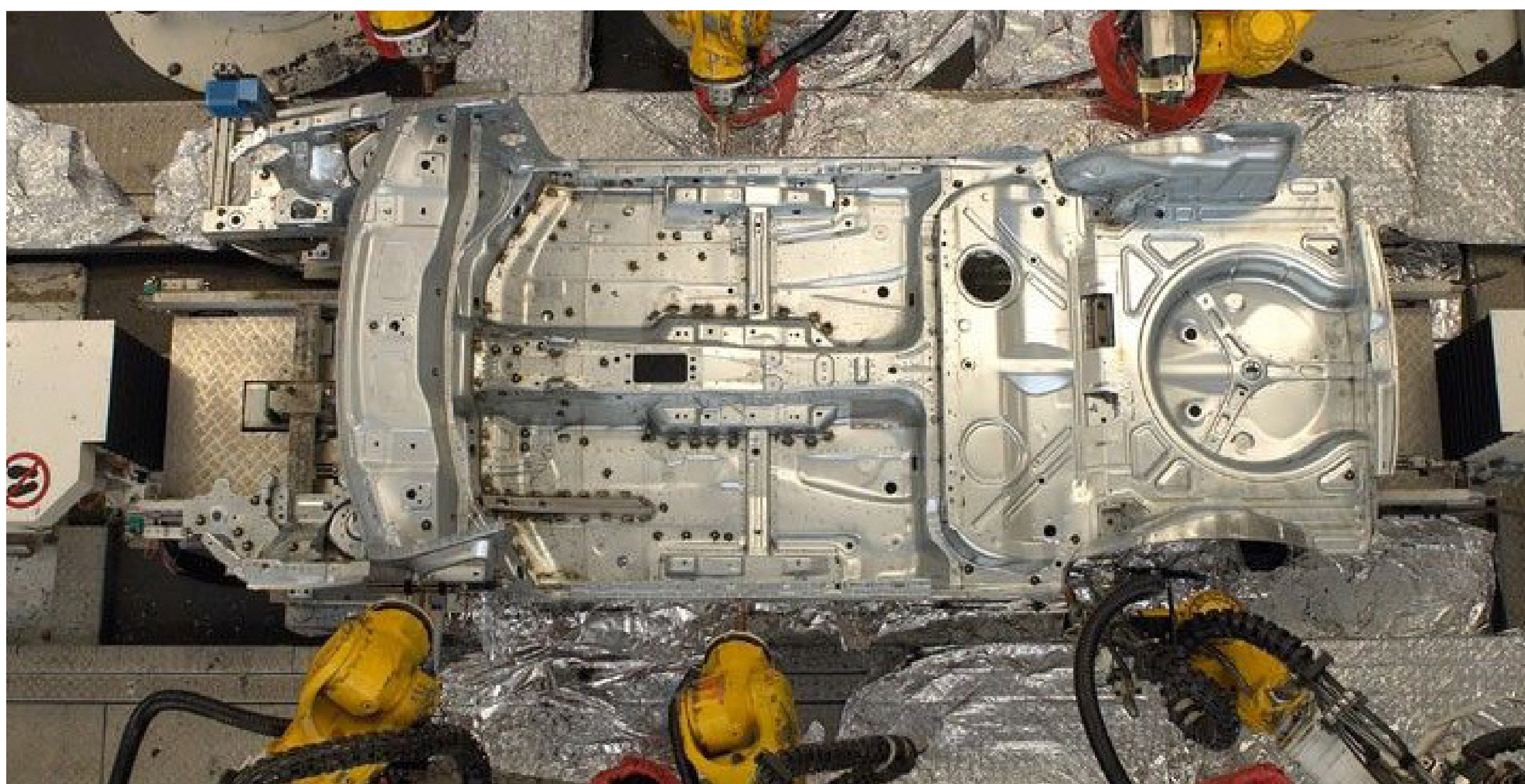


2016 Enlighten Award Nominee



Sika
SikaPower



For the new BMW 7 Series, innovative adhesive technology was needed to strategically to bond the CFRP to steel and to bond aluminum to steel. The adhesive solution must address the issue of different coefficients of thermal expansion (CTE) or Delta/Alpha of the different material substrates. SikaPower is a one-component, crash resistance adhesive designed to have the optimal balance of modulus, elongation and strength to give the adhesion performance necessary while preventing any failure from residual tension during the entire vehicle service life. The adhesive technology is a key enabler to making the use of mixed material including lightweight materials, such as CFRP and aluminum, possible in the BMW 7 Series.

Category:
Module

Application:
2017 BMW 7 Series Sedan

Weight Savings:
110lbs weight reduction from
previous model

Methodology:
Mixed Materials