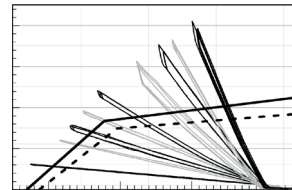


Our Services

We conduct
feasibility and concept studies
for you and your application



We provide you with an
individual design of actuator



We manufacture active modules, also in
series production



We support you with the
system integration



Contact:

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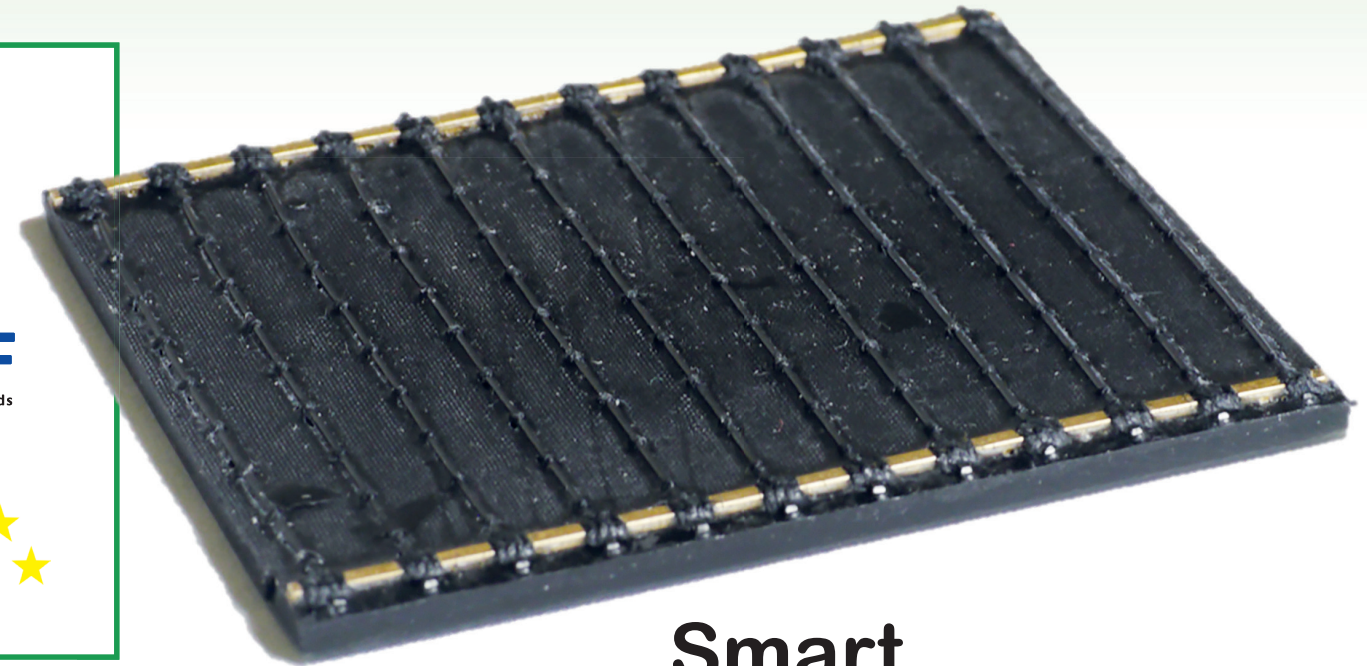
www.compactive.de

Institut für Verbundwerkstoffe GmbH

Erwin-Schrödinger-Str. 58

67663 Kaiserslautern

www.ivw.uni-kl.de



Smart Actuation

We offer you new possibilities for
adjustments – without mechanics, without
kinks and gaps, light and compact.



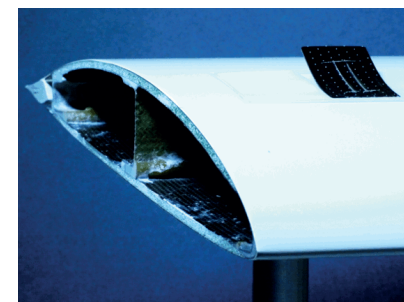
What We Do

CompActive develops and manufacture active components and systems based on shape memory alloys (SMA). Our actuation principle enables compact and lightweight adjustments free of kinks and gaps. The technology offers new possibilities for innovative applications in a wide range of industrial fields.



Technology

Shape memory alloys show significant macroscopic shape changes due to small temperature variations. By direct integration of these SMA elements in fiber reinforced polymers (FRP) components, the actuation capabilities are transferred to the hybrid structure. This allows an adaptive shape control of the component. The conventional **mechanical system** with couplings and local load concentrations is **dispensable** due to the tailored hybrid composite with material-integrated actuation compromising various advantages.



Active Vortex Generator
for Aviation



Active Aerodynamic Profile
for Automotive

Customer Benefit

With the scalable actuation principle, adjustment functions can be realized at:

- **Minimum Construction Space**
- **Lowest Weight along with**
- **Gap and Kink free Contour**

Depending on field of application and specific new function, hybrid composites can significantly increase efficiency, performance and / or comfort of technical products.

