

Presentation Ingpuls GmbH

Ingpuls GmbH from Bochum develops and produces customer-specific alloys and components made of shape memory alloys (SMA). SMA are metallic materials which – after an apparently plastic deformation – are able to 'remember' their original shape by heating as soon as the temperature changes accordingly.

Created in 2009 as a spin-off of the Institute for Materials of the „Ruhr-Universität Bochum“, Ingpuls has risen in several stages from offering consultancy, to being a development service provider and finally, in 2016, to becoming a mass producer. Today, the company is a global technological leader and is known for its outstanding expertise in materials production and processing as well as application-specific microstructure development. Due to its comprehensive and constantly growing competencies, the company is significantly advancing the industrialisation of this innovative technology both nationally and internationally. To date, several million vehicles of a German premium manufacturer have been equipped with SMA from Bochum. The high-tech materials are also used outside the automotive industry such as in medical technology or in the aerospace industry. The first satellites using SMA from Ingpuls are already orbiting the earth. In the future, many millions of household appliances will be able to make use of this innovative technology in order to carry out control tasks silently. Further applications can be found in industrial, civil engineering and consumer electronics markets.