

Engineering plastics offer a host of advantages including function integration, reduced production costs, compact functionality and enhanced design. Zühlke is your partner for developing demanding products out of plastics.

Consulting **Development** Integration

Innovation with plastics



minimum of optimisation loops. Our independence allows us to take into account your choice of suppliers or producers.

More than just plastics

Zühlke is an interdisciplinary firm that can combine its plastics expertise with know-how from other fields like electronics, embedded software or optics. All your development work is handled by a single company.

New opportunities from plastics engineering

Plastics open up possibilities for designers that would be inconceivable with many other types of material. Great freedom of design or reduced production costs are just two of the main ones. However, a plastic part only delivers an optimum value for the money if the rules of plastic design are followed. They include for example basic design rules, choice of material, and consideration of long-term stresses, temperature influences and the filling behaviour of the part in the injection mould.

From idea to mass-produced product

Zühlke's plastics engineers are experts in their field. They develop your idea from concept into a mass-produced product utilising our development process for plastic products to ensure a systematic, risk-driven approach. Functionality, integration, production costs or simple assembly are all defined in the design engineering phase. Taking a methodical approach to design, our engineers find the optimum solution to meet your requirements. They always analyse the risks in the course of development. They verify critical points using physical or virtual functional models and prototypes that we produce in our own workshops.

Cooperation with tool makers early on in the process and a solid understanding of the process facilitate efficient implementation and adjustment of the components to series manufacture with a

Design review/FMEA

We have been developing high quality products from plastic for years and are happy to pass our accumulated experience on to you. In a design review or an FMEA, our plastics engineers review your design and give you recommendations on creating a component design that is cost effective and well suited to plastics.

Your advantages

- You benefit from our interdisciplinary resources. One team implements your idea all the way to the series production stage.
- Coaching and support from experienced and qualified plastics engineers.
- The plastic development process ensures systematic development with minimal risk.
- Development costs drop thanks to the efficient use of simulation tools and functional models.

Zühlke is your partner for the development of demanding plastic products. Tell us about your ideas. We will implement them and add innovation to your product.



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