

Tooling

Innovation, quality and ecology for composites

Motivation

The design of molding tools has a major influence on the quality, reproducibility and economy of the products manufactured with them. This results in numerous requirements and problems at the beginning of a tool development, which the user has to decide on. The research area helps to master this challenge efficiently in order to arrive at a solution optimized for the respective application. The research is oriented to the tool development cycle outlined below.

Goals

Many development steps end in the tool or start from the resulting part, which involves many stakeholders. For this reason, a high value is put on the exchange of experience and **knowledge transfer** in the research. It maintains a **competence network** with other topics and industrial partners. The wealth of experience and the **creativity potential** of the participating disciplines result in **more robust, cheaper** and **smart tools** as well as **new tool concepts** for hybrid and additive processes.

