

Dr. Paul Filz: Simulation and automatic Optimization of bio-composite parts

Using bio-composites is one of the most important paths to producing plastic parts sustainably. But their unknown process-behavior is a challenge for most manufacturers.

With simulation and automatic optimization, this obstacle can be overcome. Cadmould® process simulations make the engineering of bio composite parts just as easy as the engineering of fossil composite parts, at the same level of precision and quality.

A self-optimizing development system that helps manufacturers to meet technical and economic requirements is key to achieving the goals of Industry 4.0 with bio composites. The Varimos® system automatically determines the optimal settings, using automatically generated mathematical relationships between geometry and process parameters and the resulting technical and economic criteria. Various application examples show the successful use of the system for biocomposites.

