SIGMASOFT®
Versatile Simulation of Polymer Processing

SIGMASOFT® makes mold steel transparent and allows a deep understanding of the entire molding process.

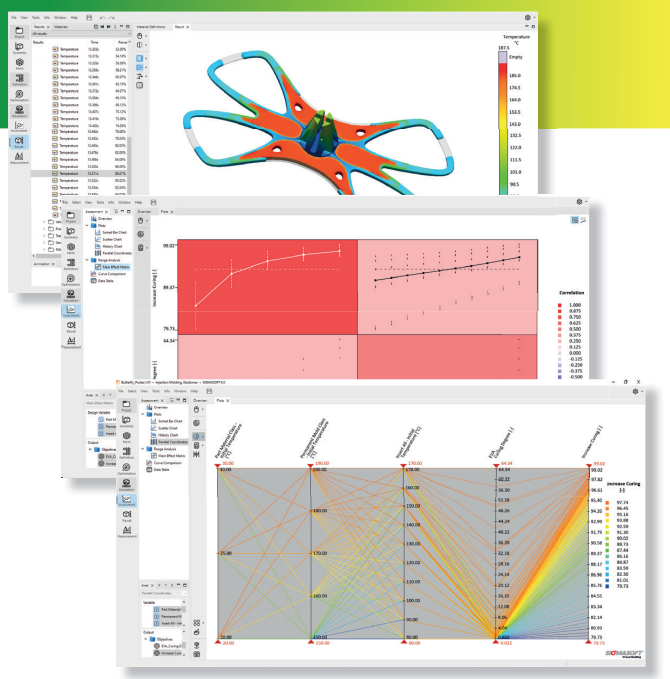
- Know in advance what will happen
- Avoid costly trial scenarios
- Justify investment decisions
- Secure selection of equipment

Version to versions for individual industries

- Thermoplastic
- Elastomer
- LSR
- Thermoset
- MIM / CIM

SIMULATE AND GET IT RIGHT

SIMULATE ANALYZE OPTIMIZE



To get more information on SIGMASOFT® or to discuss a demonstration, reach out to our team.
Validate the SIGMASOFT® simulation against the reality in your production and find the best solution for your current challenge.

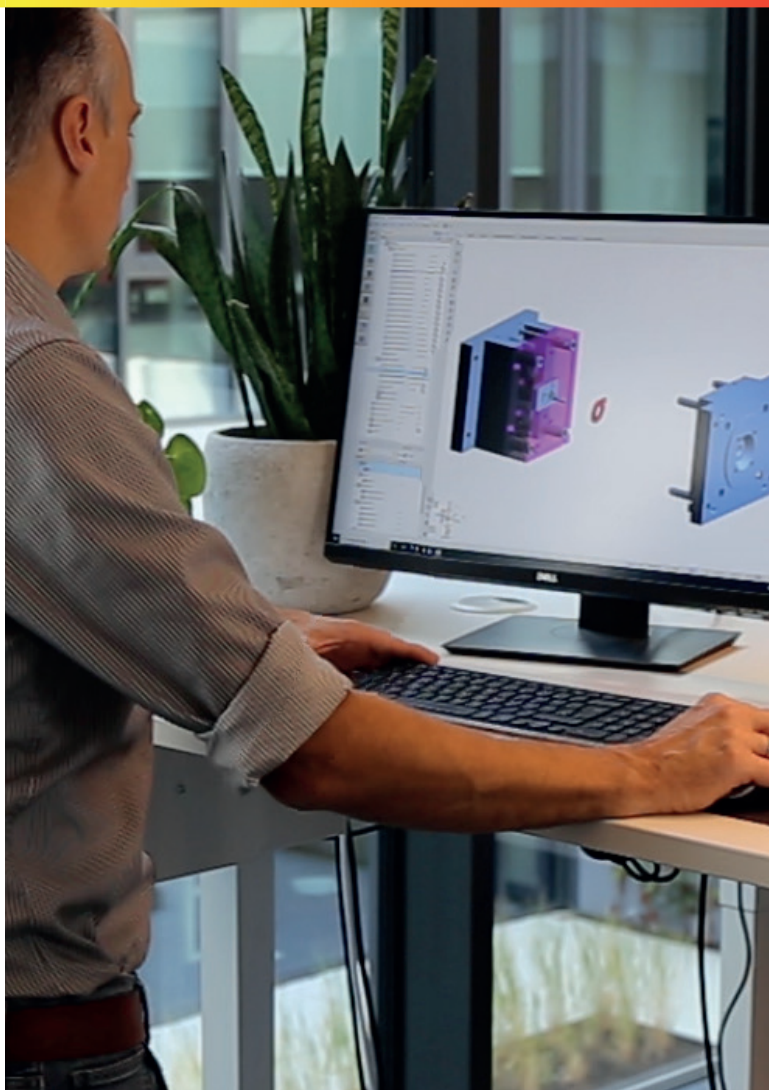
SIGMA Engineering GmbH

Kackertstrasse 16-18
52072 Aachen
Germany

+49 241 89495-0
info@sigmasoft.de
www.sigmasoft.de

SIGMASOFT®
Virtual Molding

INJECTION MOLDING KNOW HOW IN A SOFTWARE

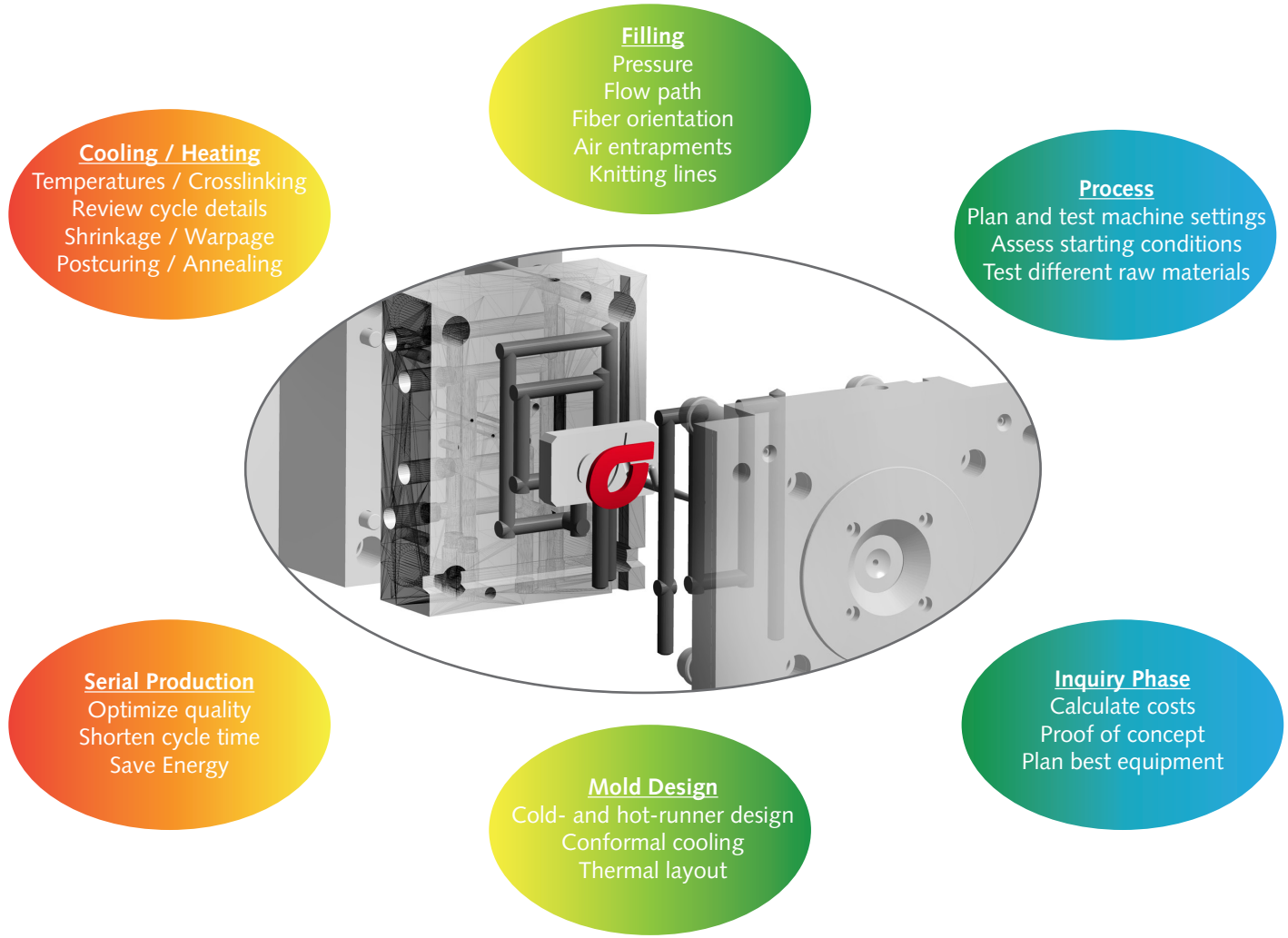


More than just a Simulation

A mold is not a cavity in a block of steel but an assembly of hundreds of precision parts joined with springs, screws, insulation, thermal management, fluid channels, etc. After easy CAD import, all elements and fluids are assigned individual physical properties from the SIGMASOFT® database including density, heat capacity and conductivity. The SIGMASOFT® simulations can use this level of detail to precisely predict reality. For quick cost calculations and process estimates, a simpler and much faster approach is available.

Polymers have many more properties than are listed on a data sheet. SIGMASOFT® has an integrated material database containing a variety of popular and generic grades used in various industries. The database can be extended with its own data from proprietary formulations. For an even higher level of detail beyond the laboratory data, the material laws can be extended by processing data from trials. This makes calculations of shrinkage and warpage even more reliable.

All simulations can be run with variable inputs to perform a DoE. Autonomous optimization systematically analyzes and displays the results to assess the best of many different combinations of machine settings, mold designs, raw materials, etc. SIGMASOFT® can display results in tables, pictures and 3D animations. The 3D animations also be viewed with SIGMAinteract®, a freeware tool available for download.



Just buying a software is no solution. Only ongoing use through a skilled application expert can lead to sustainable success. This is why SIGMA provides excellent customer trainings and daily support as part of the simulation software.
The SIGMA Solution Service supports the users continually by phone and videochat with a team of engineering experts. This option to get input and advice for a new problem or running calculation is part of the power and reliability of SIGMASOFT®.
The SIGMA Academy of Virtual Molding offers a variety of training programs for new and experienced users. Customer specific programs through the academy are also available.