



VIRTUAL MOLDING

THE SECRET OF SUCCESSFUL MOLDERS

The one who knows early, can act in time: who already knows before the start of production, how mold, material and temperatures influence each other, who can virtually optimize his mold because of that and even minimize energy consumption in the production, finds the most efficient way to produce high quality molded parts.

We at SIGMA call this integrative modelling of the injection molding production VIRTUAL MOLDING. In it we combine almost three decades of development with experience from worldwide projects. Thus, we secure a permanent competitive advantage in the highly-competitive injection market for our customers. Because with the software you can also optimize your injection molding production: through consequent virtualization of all process phases from design up to serial production and through our personal Solution Service to help you interpret your results.



If one software combines comprehensive know-how in polymers and the most elaborate calculation methods for rheological and thermal flow, warpage and their reciprocal dependencies, it leads to the best tool and best injection process.



VIRTUAL MOLDING

THE SECRET OF SUCCESSFUL MOLDERS

Optimize injection processes in every detail.
And find the actually most efficient solution.

THE ADVANTAGES OF SIGMASOFT® VIRTUAL MOLDING AT A GLANCE

With precise analyses for efficient productions by SIGMASOFT® VIRTUAL MOLDING you benefit of the most sophisticated simulation solution available on the market – developed by experts for materials and modelling. In almost three decades of continuous development it was perfected to be a comprehensively working analysis tool for molding processes with over 2.000 installations worldwide.

Our differentiation to the competition:

- Precise analyses by the best algorithms
- Expert support in the SOLUTION SERVICE
- Extremely short ROI-time due to fast improvement in efficiency
- Designed by practitioners for practitioners and developed by internationally recognized software specialists: complex modelling, but easy and intuitive to use
- Holistic approach of planning and analysis for all development stages
- Extremely short time to solution by a most effective, automatic 3D enmeshment of the whole mold

YOUR VIRTUAL INJECTION MACHINE FOR 5 MATERIAL GROUPS

SIGMASOFT® VIRTUAL MOLDING Thermoplast

Acquire full transparency of the production processes for plastics, because you no longer have to ignore or leave out the crucial details during planning and realization.

SIGMASOFT® VIRTUAL MOLDING Elastomer

Your 360° 3D simulation solution for high efficiency in the production of injection molded, elastomeric parts and polymer products.

SIGMASOFT® VIRTUAL MOLDING Thermoset

Simulate all injection molding and transfer injection molding processes of free flowing thermosets, cast resins and BMC in a single software application.

SIGMASOFT® VIRTUAL MOLDING MIM/CIM

Optimize all parameters in the development process of metal and ceramic injection molded parts.

SIGMASOFT® VIRTUAL MOLDING Thixo

Dimension your semisolid molding processes of aluminum and magnesium alloys in the most efficient way by modelling the complete material and process parameters.

