



ADVANCED SIMULATIONS

FOR HIGHER PRODUCTIVITY



haidlmair.at



OUR SERVICES FOR HIGHER PRODUCTIVITY

Haidlmair-moulds always guarantee your „Higher Productivity“. This higher productivity is ensured by the use of materials of the highest quality, the processing with most modern machines and the know-how and the competence of the Haidlmair-specialists.

A simulation will be made with every Haidlmair-mould as a standard procedure during the concept phase. This ensures an optimal product prior to the beginning of the design to avoid unnecessary optimisation loops in the production.

With our additional offer „Advanced Simulations“, we provide you with another possible to perfect your product further more.

Following parameters and process options can be analysed for your „Higher Productivity“:

- Filling
- Surface defect prediction
- Gate location
- Moulding window
- Venting analysis
- Crystallisation analysis
- Holding pressure
- Cooling
- Transient mould cooling or -heating
- Rapid temperature cycling
- Warpage
- Fibre orientation
- Insert overmoulding
- In-mould label
- Two-shot sequential overmoulding
- Core shift
- ...

You can benefit from these advantages if you book our compiled packages with your mould order. We offer you perfectly customised solutions upon request.

SIMULATION BASIC

■ Specification of the injection points

- Filling simulation
- Uniform filling reduces injection pressure and cycle time
- > Feathering prevention

■ Flash of the draft angles and radii

- Optimisation of the ejection behaviour and detailed adjustments based on the product geometry and material
- > Prevention of the deformation during ejection and reduction of the ejection marks

■ Venting

- Definition of the ideal place and type of the venting
- > Clean product by avoiding of air locks and burners

SIMULATION ADVANCED

■ All benefits of Simulation BASIC

■ Design

- Insertion of flow aids and wall thickness variations
- > Perfect filling, reduced warpage and optimised cycle time

■ Process parameters

- Simulation of different fillings (cascade, holding pressure profile)
- > Definition and optimisation of the clamping force, injection pressure and the position of the weld lines

SIMULATION ULTIMATE

■ All benefits of Simulation BASIC and Simulation ADVANCED

■ Additional strength analysis

■ Product optimisation

- Analysis of the influence on stability

■ Machine size

- Optimisation of the mould size to minimise the required injection moulding machine

■ Materials

- Simulation of different materials inside of the mould to optimise durability, cooling etc.

■ Special methods

- Simulation of different specific application technologies for potential product optimisations (e.g. gas- or water injection, fibre orientation, two-shot sequential overmoulding etc.)

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