



2LIMIT GMBH - FOAM DESIGN TO THE EDGE

**2LIMIT GmbH** – full service with system competence in MuCell® – the leading technology in physical foaming

CHOOSE YOUR INDIVIDUAL SCOPE OF SERVICE FROM OUR MODULAR PRODUCT OFFERINGS.



FEASIBILITY CHECK



PART DESIGN



PART REDESIGN



SIMULATION



TOOL DESIGN



TOOL PROCUREMENT

**2LIMIT GmbH is a TREXEL + GK Concept joint venture.**

As a global corporation we continually strive to set new limits in thermoplastic foaming by providing innovative and accurate turn-key solutions to maximize the benefits of foaming in your application.

With **2LIMIT GmbH** we bundle our foaming-specific know-how with experience in technology, process and engineering. From idea to production we support you with 20+ years of **MuCell® experience** to maximize your productivity and efficiency.

#### BENEFITS

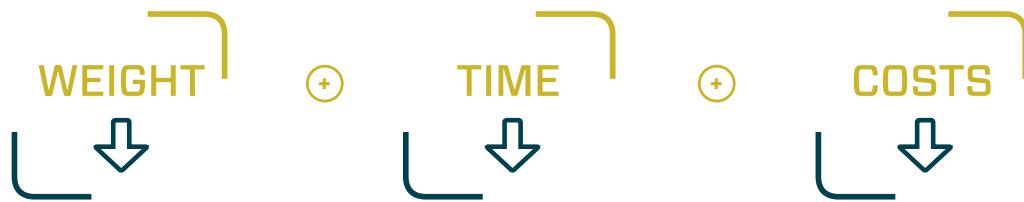
- + MATERIAL SAVINGS  
+ CYCLE-TIME REDUCTION  
+ CLAMP FORCE REDUCTION  
= **REDUCED COSTS AND LIGHTER PART WEIGHT**

- + **CIRCULAR ECONOMY** – STAY IN TUNE WITH TODAY'S SUSTAINABILITY APPROACH

- + **SIMPLICITY** – PROFIT FROM OUR EXPERIENCE IN PROVIDING TURN-KEY MuCELL® SOLUTIONS

- + **STAY FLEXIBLE** THANKS TO OUR MODULAR SERVICE PACK STRUCTURE

# Release the full potential of the MuCell® Technology with our modular service system and value packs



- Creating integral foam
- Appropriate design for MuCell® Technology
- Balanced tool
- Flow length evaluation

- Elimination of holding pressure
- Wall thickness reduction
- Less cooling time
- Reduction of tool loops
- Faster product approval

- Material saving
- Cycle time reduction
- Less clamping force
- Longer Tool Life
- Higher dimensional part stability in serial production
- Less Co<sub>2</sub> emissions

VALUE PACK <b>MuCELL® BASIC</b> Feasibility Check	VALUE PACK <b>DESIGN</b> Design   Redesign	VALUE PACK <b>SIMULATION</b> Basic   Advanced	VALUE PACK <b>TOOL</b> Concept + Design	VALUE PACK <b>360°</b> Complete	VALUE PACK <b>INDIVIDUAL</b> Set-up
<b>MuCELL® FEASIBILITY</b> , Wall thickness analysis, Gate positions, Wall thickness proposals, Localization of potential, Postblow areas, Estimation clamping force, Estimation weight reduction, Estimation cycle time	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>PART DESIGN OR REDESIGN</b> Meshing Basic filling simulation (Injection points localization, balanced filling, weld lines, clamping force, injection pressure)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>SIMULATION BASIC</b> Meshing Basic filling simulation (injection points localization, balanced filling, weld lines, clamping force, injection pressure)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>SIMULATION ADVANCED</b> Basic filling simulation (injection points localization, balanced filling, weld lines, clamping force, injection pressure) Simulation tool cooling, Simulation warpage trends, Simulation density distribution		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>TOOL</b> Concept and design  Procurement Sampling			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>