

## Trexel presents good-looking, lightweight components with outstanding surface quality

- Foam injection for molded parts with flawless surface quality
- Specialists from across industry team up to develop a complete, integrated solution
- Live demonstration at the Fakuma 2017

**(Siegen, Sept 2017) – At the Fakuma 2017, Trexel, the German-based specialist in foam injection molding, is presenting a solution for the production of complex MuCell components with high quality surfaces (hall A4, stand 4007). The solution was developed in a collaborative project with the innovation group “Zukunft Spritzguss”. Integrating interdisciplinary expertise has produced a complete, highly functional production system. This innovative solution will be demonstrated in action on the Milacron stand (hall B3, stand 3203) at the Fakuma 2017.**

### **Injection molding satisfies contradictory demands – looks vs. light weight**

Every technical solution is bound to have both benefits and drawbacks or limitations. So, for example, foam injection molding has to date found it a challenge to deliver both looks and light weight. One approach to solving this problem is to combine different technologies so that each one not only emphasizes the strengths of the others, but also eliminates their drawbacks. Now an innovative system approach has produced a solution that delivers MuCell components with high-quality surfaces – at a competitive cost. Key to this powerful solution is rapid, precise tool temperature change. The system produces high-gloss surfaces as effortlessly and efficiently as structured surfaces. A side effect is opening the way to new designs. “Fundamental to the demo production system in action at the Fakuma is the fact that there are no limitations to be taken into account either relating to lightweight design or to surface quality, on the contrary, the advantages of the two technologies reinforce each other to create an impressively complete and cohesive solution.” explains Dr. Hartmut Traut, CEO and Business Director Europe at Trexel. “In other words, this solution is another building block in the range of solutions for lightweight components.” It removes major obstacles to the continued expansion of foam injection molding.

### **Teamwork is the key to success**

Market demand for attractive lightweight parts is growing exponentially, driven by end-user pressure on prices and costs. Bridging the gap between high surface quality and light weight requires cooperative solutions produced by effective teamwork. This approach delivers end products that meet all expectations, including affordable cost. The production solution being demonstrated at the Fakuma integrates the know-how of a number of cooperation partners. The demo product shows conclusively that the solution produces surfaces that meet exacting quality criteria and also illustrates the full potential of the MuCell process in terms of “designing for function”. “We have been able to produce wall thickness changes where they are necessary for component functionality.” says Traut, “and we have combined this with the highest surface quality, even where the surface is slanted or convex.” The key to this achievement is an innovative 3D tool temperature change system, in combination with the MuCell process.

### **MuCell in action**

Visitors to the Fakuma can see the MuCell system in action on the Milacron stand (hall B3, stand 3203). A demo product “Car with High-gloss Surfaces” will be produced on a Milacron MTS200 injection molding machine. It convincingly illustrates the successful outcome of the work of the cooperation group “zukunftspritzguss.de”. In addition to the MuCell process, this system features successful solutions for 3D temperature change, tool and cooling duct design, hot runners and laser surface graining, together with other systems.

Photos:



*Picture 1:  
Demo product "Car with High-gloss Surfaces" produced on a system developed jointly by members of the innovation group zukunft-spritzguss.de.*



*Picture 2:  
Standalone version of the operator-friendly T Series MuCell machine with touchscreen*

For more information visit:

[www.zukunft-spritzguss.de](http://www.zukunft-spritzguss.de)

or

[www.trexel.com](http://www.trexel.com)

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### **About Trexel**

Trexel is the exclusive developer of MuCell® microcellular foaming technology and maintains an extensive patent portfolio in the USA, Europe, and Asia. Trexel's business model entails the delivery of MuCell® systems for production using foam injection molding technology. It is not necessary to sign licensing contracts. Trexel is also available for engineering support, including both basic and advanced training activities. Project support is available on request in a range of areas from the selection of suitable components to planning, prototyping, and even series startup. Another area of activity is customer service, which includes maintenance and the supply of spare parts.

MuCell® support centers are located in the USA, Germany, and Asia.