

## **PRESS RELEASE**

Powered by the Emotion 310/100 LIM, Momentive Performance Materials and Engel Austria are to present highest precision in liquid silicone applications with a minimum energy outlay

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*For more than 40 years, ENGEL has been offering a complete product range of machines that are specially aligned to the processing of crosslinking elastomer materials. This range of machinery includes the ENGEL victory and ENGEL e-motion small and medium sized series with tiebarless clamping unit. The combination of these field-proven, modular conceptualized technology platforms with specific ENGEL LIM plasticizing aggregates and dosing and conveying technology for liquid silicone has resulted in the holistic ENGEL LIM machine series. Among other products, ENGEL will be displaying the ENGEL e-motion 310/100 LIM for the production of a diving mask at the K 2007 in Düsseldorf (Germany), together with the materials manufacturer Momentive Performance Materials.*

The general system basis for the ENGEL LIM range of machines is the innovative tiebarless clamping unit which offers ergonomic advantages aligned with the corresponding application, but which is, however, also flexible in combination with the specific injection unit. The ENGEL LIM machine series stands out through its practical and economic combination of field-proven ENGEL technology and specially developed components for LSR processing.

### **An insight into LSR processing**

In the setting of the K 2007 event and on the exhibition stand of Momentive Performance Materials, a world leading manufacturer of liquid silicone rubber (LSR), ENGEL will be presenting an ENGEL e-motion 310/100 LIM – fully electric. In a single cavity mold, this machine produces a diving mask with a mold from Italian firm Tomayer s.r.l., Galliate, out of liquid silicone, using Momentive Performance Materials´ LSR. A Kuka KR5 robot then removes the finished masks. The manufacturing cycle occurs completely automatically, and is without post processing and almost any waste materials. Through the completely electronic configuration, the machine stands out with its utmost levels of precision at a minimum level of energy consumption. In addition to this, the independent drives guarantee maximum levels of movement freedom and an energy optimized LSR manufacture.



### **It all depends on the right combination**

The ENGEL LIM range of machines is aligned towards the wide range of different application possibilities in the processing of liquid rubber. It consists of both machines for the manufacture of micro components as well as for large volume items such as insulators, and also takes the large spectrum of commercially available LSR types, including highly reactive and highly filled LSR materials, into account. In this special case the acclaimed LSR 2660 by Momentive comes into use, which stands out as a result of its straightforward and safe workability, rapid vulcanization and sound transparency paid with excellent physical attributes.

### **Engel Austria GmbH – Business Overview**

As an individual brand, Engel is the biggest manufacturer of injection molding machines in the world, and is also the world's leading company in the construction and design of plastics machinery. The Engel group currently offers all technology modules for plastics processing from a single source: injection molding machines for thermoplastics and elastomers, tools and automatic systems, in which its individual components are also competitive and successful in the market. With eight production facilities in Europe, north America and Asia (China, Korea), its own branches in 17 countries, and representation in more than 70 countries, Engel offers its customers optimal world-wide support to ensure that they are competitive and successful using the latest technologies and the most modern production systems.

### **Momentive Performance Materials – Business Overview**

Momentive Performance Materials was created from the sale of GE Advanced Materials and its former Joint Ventures, GE Bayer Silicones and GE Toshiba Silicones to Apollo Management, L.P. in December 2006. Momentive is the world's second-largest producer of silicones and silicone derivatives and a global leader in the development and manufacture of products derived from quartz and advanced ceramics. Silicones are a multi-functional family of materials used in thousands of products and serve as a critical ingredient in many construction, transportation, personal care, electronic, consumer and agricultural uses. Silicones are generally used as an additive to a wide variety of end-use products in order to provide or enhance certain types of their attributes, such as resistance (heat, ultraviolet light and chemical), lubrication, adhesion or viscosity. Some of the most well-known end-use product applications include bath and shower caulk, pressure sensitive adhesive labels, foam products, cosmetics and tires. Our Quartz division manufactures quartz, specialty ceramics and crystal products for use in a number of high-technology industries, which typically require products made to precise specifications.



These materials solutions are used as springboards for innovation in hundreds of consumer and industrial applications ranging from car engines, to biomedical devices, to integrated circuits. Industries served include aerospace, agriculture, appliances, automotive, construction, electronics, furniture and furnishings, healthcare, home care, industrial, lighting, packaging, personal care, plastics, semiconductor, telecommunications, tire, transportation, and water purification.

World Headquarters: Wilton, Connecticut  
President & CEO: Jonathan Rich  
Number of Employees: Approximately 5,000  
Revenue in 2006: \$2.5 Billion  
Website information available under: [www.momentive.com](http://www.momentive.com)

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