

ENGEL Technology Symposium

a medical and packaging event

ENGEL
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INVITATION April 26th and 27th, 2017

ENGEL Machinery | 3740 Board Road | York, PA

Dear Business Partner,

Supporting our commitment to the injection molding industry, we are pleased to present ENGEL Technology Symposium. Come join us for a morning of comprehensive presentations on the latest innovations that meet the ever-changing demands on the manufacturing landscape. The afternoon will be a time to browse the various exhibits, network with peers, and talk to the experts at the Partner Fair. Experience our solutions for Industry 4.0, ENGEL inject 4.0 with live demonstrations. Presentations and exhibits will span all injection molding industries with a focus on medical content on April 26th and packaging content on April 27th. Join us for one or both days.

Please register by April 12th, 2017 to reserve your seat at this very special complimentary event by visiting: <https://event.engelglobal.com/event/york2017>

The ENGEL Team

Day one: Wednesday, April 26th, 2017

8:30 am	Guest check-in
9:00 am	Welcome Mark Sankovitch President ENGEL North America and Wolfgang Degwerth Vice President ENGEL North America
9:10 am	Exhibit overview Don Ivey Director of Sales Northeast Region ENGEL North America
9:30 am	Innovations for value-added performance – ENGEL medical Jeff Hershey Business Unit Manager – Medical ENGEL North America
10:00 am	Incorporating regulatory affairs into the medical device value chain Robert Schwenker Business Manager, Medical Components Saint-Gobain Performance Plastics
10:30 am	Pushing the boundaries of machine intelligence Joachim Kragl Director of Advanced Molding Systems & Processing ENGEL North America
11:00 am	Break Jan Nietsch Business Development Manager Hekuma
11:15 am	Automation: A key to an efficient production Jan Nietsch Business Development Manager Hekuma
11:45 pm	The changing market landscape of the healthcare industry Perry De Fazio Vice President Covington Associates
12:15 pm	Lunch
12:15 - 4:00 pm	Live technology demonstrations and partner fair

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Day two: Thursday, April 27th, 2017

8:30 am	Guest check-In
9:00 am	Welcome Mark Sankovitch President ENGEL North America and Wolfgang Degwerth Vice President ENGEL North America
9:10 am	Exhibit overview Don Ivey Director of Sales Northeast Region ENGEL North America
9:30 am	High performance with high energy efficiency – ENGEL packaging Michael Traxler Business Unit Manager – Packaging ENGEL North America
10:00 am	High performance packaging mold technology Jordan Robertson General Manager Business Development & Marketing Stackteck Systems
10:30 am	Robotic packaging turn-key solutions Marco Marconi Sales Area Manager Campetella Robotic Center
11:00 am	Break
11:15 am	Pushing the boundaries of machine intelligence Joachim Kragl Director of Advanced Molding Systems & Processing ENGEL North America
12:15 pm	Mission control meets space walk - building the future of manufacturing at ALPLA Jodok Schaeffler Project Manager ALPLA
12:15 pm	Lunch
12:15 - 4:00 pm	Live technology demonstrations and partner fair

About the Exhibits:

ENGEL e-motion 170/110 T

“scrub!” – is the name of a new interdental brush developed by pheneo (Bremen, Germany) that will soon be introduced to the market. Its manufacturing process was exclusively previewed in the ENGEL booth at the recent K 2016 show in Duesseldorf, as a world first. Until now, interdental brushes have consisted of three components which are usually produced in separate processes: the grip, a wire mesh and the filaments. Utilizing new technology from system partners ENGEL, Hack and Hekuma, up to 500 bristles can now be molded directly in single-component injection molding, together with the core and the grip.



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ENGEL e-motion 740/220 T wide platen

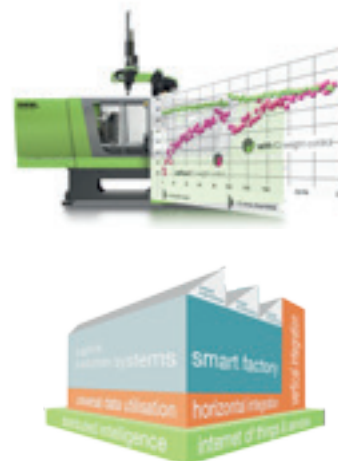
Injection blow molding makes it possible to achieve economical production of ready-to-use small containers in a single step. Up until now, the number of possible cavities was limited. Together with its system partners Foboha (Haslach, Germany) and Alpla Werke Alwin Lehner (Hard, Austria), ENGEL has succeeded in developing the integrated process for use with multi-cavity molds, significantly reducing cycle time. Based on cube technology, up to 96 cavities are possible without compromising cycle time and accuracy. This significantly reduces unit costs for high production output.



ENGEL e-motion 170/85 TL US

the smart machine: compensating for any fluctuations before rejects are produced

The iQ software products from ENGEL continually analyze critical process parameters in order to identify and immediately compensate for deviations before defective parts are made. iQ weight control keeps the injected melt volume and the viscosity constant, and iQ clamp control determines the mold breathing to continually readjust the clamping force. ENGEL e-floMo monitors and documents all cooling and temperature control circuits of injection molds and independently regulates either the flow volume or differences in temperature. The fully integrated ENGEL viper 12 robot comes standard with iQ vibration control which not only detects oscillation in the robot's movements, but also actively compensates for vibration caused by external influences.



ENGEL victory 200/120 hy-tech LSR US

Fully automatic molding of **liquid silicone rubber** in a high precision, high performance machine cell: all-electric drive technology, highly dynamic servo motors, an innovative energy recovery system and linear guidance of the moving platen provide the foundation. With unprecedented acceleration rates, the machine provides impressive process stability with fast cycle times. A four cavity duck bill mold, supplied by M.R. Mold & Engineering Corp., features fully automatic processing and in-moldslitting by a vertical axis demolding system which provides a renewable surface for every slit. The Silcomix liquid silicone dispensing system provided by Dopag is designed to process all common liquid silicone rubbers from a variety of container sizes, and is balanced so as to use all but 1% of raw materials.

