



Braunform GmbH  
Unter Gereuth 7 + 14  
D-79353 Bahlingen  
Tel: 0049 (0) 7663 9320-0  
Fax: 0049 (0) 7663 3727  
Email: [info@braunform.com](mailto:info@braunform.com)  
[www.facebook.de/braunform](http://www.facebook.de/braunform)

**contact:**  
**Marketing Braunform GmbH**

Phone 0049 (0) 7663/9320-108  
Fax: 0049 (0) 7663/9320-139  
E-Mail: [marketing@braunform.com](mailto:marketing@braunform.com)

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## **PRESS RELEASE**

**Innovative mold for high-volume expertise - Braunform MED mold® combines process-safe pharmaceutical technology with a 96-cavity high-speed injection mold at K 2013 Show in Dusseldorf /Germany**

At the K 2013 show from 16<sup>th</sup> to 23<sup>rd</sup> October 2013 in Dusseldorf / Germany Braunform will present a high cavitation injection mold according to Braunform MED mold® standard with a very short cycle time (about 5 seconds) together with the project partners Hekuma and ENGEL. The 96-cavity mold for a pen stroke (needle holder) is designed according to Braunform MED mold® standard (standard developed especially for injection molds in cleanrooms) and is based on the long-standing expertise of the mold maker in the pharmaceutical technology.

The high cavitation injection mold processes the article in a highly automated manufacturing cell under constant visual monitoring. With cores with a diameter of only 0.3 mm and 0.5 mm the tool is designed according to the latest state of the art. Special attention in the development of the mold was placed on the modular design i.e. the modules are individually centered and (de)mounted externally accessible. Furthermore, the mold cooling is developed to achieve shortest cycle times, amongst others with vakuum brazing. Also worth mentioning is the direct side gate of the article with a full hot runner brand Heitec.

For the implementation of the complete project the automation specialist Hekuma has developed the high-speed extraction with an acceleration of up to 17G and a camera surveillance system for automatically sorting out rejected articles in case of breaking cores in the mold. The machine manufacturer ENGEL provided a fully electric ENGEL e-motion 220t. Also involved in the realization of the injection mold are the mold shop partners Meusburger, HEITEC and Listemann.

During the exhibition period, the injection mold will be exhibited at the booth of ENGEL. The corresponding module inserts are shown at the booth of Braunform in Hall 1, Stand F30 in detail.

The machine manufacturer Ferromatik Milacron GmbH shows on its booth a 4-cavity injection mold for the production of a 1 component container of the product "Adapplicator®". The cycle time of the tool is 9 seconds, the part weight is 1,6 g.

This mold is characterized for its hot half being used for two items: the 1ml Adapplicator® as well as the 2ml Adapplicator®. The modular unit - in detail the cavity plate nozzle side and the complete ejector side – can be changed while the hot half remains on the injection molding machine. The tool has a modular structure, in which the mold inserts can be replaced on the nozzle side. The mold plate must not be changed. This removal may take place on the injection molding machine which has the advantage that the mold does not have to be removed from the machine during maintenance or cleaning processes.

The Adapplicator® or "the spraying vial" for mucosal and topical application in human medicine, veterinary medicine and wellness is used by many doctors, naturopaths and chemists.

#### Image overview:



Braunform MED mold® combines process-safe pharmaceutical technology with a 96-fold high-speed injection mold

## Braunform at a Glance

Founded in 1977, the Braunform Group is considered to be one of the most innovative service providers of tool and die manufacturing in the plastics processing industry today. The company is distinguished by its profound understanding of technology and customer requirements, its high sense of awareness for quality, and the courage it has for continuous change.

The enterprise stands for Full Service Engineering in tool and die manufacturing, with a technical center and clean-room production facilities. The fully air-conditioned mold designer and constructor belongs to the worldwide leading companies in this area. Braunform is characterised as an ideal partner for new product ideas with thermoplastics, TPE, silicon and ceramics, by its high technological competencies in the sector of multi-component technology and MED-molds®.

The company is specialized in the manufacturing of **multi-component molds, multi-cavity tools, high precision molds, molds for the medical industry (MED-molds®), stack molds, as well as fast rotary tables (up to 1,400 mm diameter).**

As an acknowledged systems supplier, Braunform offers **integrated, custom-designed systems solutions with long life cycles in tool and die technology:** from the first steps in development up to sophisticated manufacturing.

There are machines available for injection molding in the **clean room, in accordance with ISO 7 und 8**, with clamping forces ranging from 650 to 2,000 kN with **Laminar Flow Facilities**, as well as automated assembly and stamping systems. In the **Technical Center**, customers may use injection molding machines with clamping forces ranging from 250 to 4,000 kN, available with both 2 component (with **silicon injection**) and 3 component applications for pre-series manufacturing.

The industries Braunform services include:

- **Personal Care**
- **Pharmaceutical + Medical**
- **Consumer Goods**
- **Automobile**
- **Electronics**
- **Sealing and Packaging**
- **Sanitary and Health.**

High quality requirements, manufacturing methods and an organisation with its **own patent team** illustrate the company's future-oriented and dynamic way of thinking which all serve to **improve the profitability of customers.**

The high demands in quality, the level of experience and the references of Braunform all stand for process-assured and cost effective solutions, the performance of which is proven in daily manufacturing and all of which are oriented to reduce price per part. The main focus is always on **process assurance, shorter cycle times, increasing output quantities and all at the highest of quality – Made in Germany.**

Braunform is a long-term oriented, family-owned company with actually over 300 employees. This is illustrated through a high reinvestment quotient and in a trainee percentage of 15% of the regular workforce.

**Braunform – Innovation. Quality. Reliability.**