



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

**Kontakt:**  
**Marketing Braunform GmbH**

Telefon: 07663/9320-108  
Telefax: 07663/9320-109  
E-mail: [marketing@braunform.com](mailto:marketing@braunform.com)

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## Press release

### **Injection molds with quick-changing system – maximum efficiency and flexibility**

In addition to the highest quality standards in a today's mold-shop it is the economic aspect that often proving decisive for an investment. Multi-cavity injection molds with high output rates must come up with a short cycle time with great flexibility and ease of maintenance. Also evident in the consideration of social trends is the increasing consumer demand for individual products or different product variants across industries.

This results in a correspondingly large number of mold variants often characterized by locally differently shaped geometries. For this, in turn, different mold cores or mold pins are required which have to be replaced in the normal process by costly assembly work. Therefore, for the manufacturing of various mold variants, the interchangeability of mold cores and pins is a flexible, inexpensive alternative without long set-up times.

The patented Braunform systems are distinguished by the quick-change system of individual areas and the modular design. Through simple operation of a locking device cores and pins of different geometries are exchangeable within the quick-change system while in the modular design complete components and thus large-scale forming areas can be replaced by simple handgrips. Here, a solution for replacing nozzle side inserts was created in which a side gate nozzle is implemented. The module designed can be separated from the mold during disassembly by a releasable electrical connection at the mold without additional work, so complex wiring work is eliminated.

The modular design allows more compact injection molds, whereas each module is almost like a small tool. Due to the direct centering of the inserts ejector side to nozzle side wear is minimized, since with floating cavities the thermal expansion of the mold plates has a minor influence. The modules can be used in a pilot mold for testing purposes before the final installation takes place in the production mold. Thus, the pilot phase brings both a risk minimization as well as a project safety resulting in a time advantage in the optimization phase.

Thanks to this cost efficiency i. e. by reduced set-up times, higher costs for the pilot and production mold amortize within a very short time. In cases of maintenance or repair the modules can be replaced quickly so there is hardly any loss of production and production can start again very fast. Another advantage shows in pharmaceutical applications and plastics production in the clean room. As during set-up only one module needs to be replaced by quick-change system the time consuming in- and outward transfer of the complete mold into the clean room is eliminated.

Picture 1:



#### Braunform at a Glance

Founded in 1977, today Braunform is with more than **315 employees** considered to be an innovative leader in the plastics processing industry. The precision mold shop is distinguished by its profound understanding of technology and sophisticated customer requirements as well as its high sense of awareness for quality.

The company stands for **Full Service Engineering** in mold manufacturing, starting with the development right up to the qualification and to a demanding clean room production. The fully air-conditioned mold shop with the latest production technology belongs to the world leading facilities for mold technology. The industries Braunform services include **Pharma, Personal Care, Consumer Goods, Packaging, Automotive, Electric and Water Technology**.

The company is specialized in the manufacturing of **multi-component molds, multi-cavity molds, stack molds, molds for the medical industry (MED-molds®)**, as well as fast and long-life **rotary tables**. In addition Braunform is characterized as an ideal partner for new product ideas with **thermoplastics, TPE, silicone and ceramic**. For the pharmaceutical industry Braunform offers sophisticated manufacturing processes including automated assembly and stamping systems in clean rooms ISO class 7 + 8. In the **Technology center**, customers may use injection mold machines with 2 component (with silicone injection) and 3 component applications for pre-series manufacturing.

Due to the project management and the full-service engineering **shortest time-to-market times** become possible and **costs are significantly reduced**. The main focus is always on **process assurance, shorter cycle times, increasing output quantities and all at the highest of quality - Engineering made in Germany**.

Braunform is a long-term oriented, family-owned company. This is illustrated through a high reinvestment quotient and in a trainee percentage of 13% of the regular workforce.

**Braunform – Connected to people. At home in the region. In demand worldwide.**