

PRESS RELEASE

FAKUMA 2018: Braunform GmbH (Bahlingen, Germany) presents patented quick-change mechanism at the booth of Engel Austria GmbH

Quality Engineering is very important to Braunform. The company aims to provide maximum value in the field of mold making technology. The focus is on production efficiency and reducing the total cost of ownership for the customer - and this depending on the requested application.

At this year's FAKUMA (the international trade fair for plastics processing from 16th to 20th October 2018 in Friedrichshafen/Germany) Braunform GmbH with partners will be presenting its patented quick-change mechanism mold technology. This mold principle is especially interesting for companies that steadily produce similar articles in small quantities or that have products with a high variety of variants. Another advantage is that changing the inserts is done fully automatically and thus the set-up times / costs are low.

An example of this mold principle can be found on the booth of Engel in hall A5. On an Engel injection machine e-motion 330 / 120TL (fully electric) incl. automation, two geometrically different articles are manufactured in one mold base. These two articles build - when assembled – a caliper as the end product. The special feature of the two articles are the very different shot weights of the two articles, with one of the two articles additionally requiring a slider.

With the quick-change mechanism a change of the floating inserts ejector side/nozzle side is carried out via robot, whereby the cooling is blown out before the inserts are changed. To ensure that the injection molding machine always knows which inserts are currently mounted in the mold base the inserts are coded. Depending on the installed application version, an injection molding machine could vary the process via sensors from Kistler. A robot removes the produced parts and assembles the two articles. The parts can still be individualized via a laser. An ABS is processed with a cycle time of approx. 20 sec.

Project Partners:

Engel Austria GmbH
GÜNTHER Heisskanaltechnik GmbH
Kistler Instrumente GmbH
Meusburger Georg GmbH & Co. KG
Reichle Technologiezentrum GmbH

Picture Survey:



1-cav. Injection mold with quick-change mechanism inserts ejector side/nozzle side for caliper

Braunform at a Glance

Founded in 1977, today Braunform is with more than **375 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 Mold®)**, 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 GMP C and D. 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**. The company is certified according to DIN EN 13485 / 15378 / 9001 / 14001 / 50001.

Braunform is a long-term oriented, family-owned company. This is illustrated through a high reinvestment quotient and in a trainee percentage of 12 % of the regular workforce.

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