
Press release

Complexity and precision in silicone injection moulding

toolcraft manufactures two different moulded silicone parts in just one mould.

Georgensgmünd/Spalt (Germany), 14 January 2025: Injection moulding and mould-making technologies have been an integral part of toolcraft AG's services for 20 years, and it is thanks to continuous investment in expertise and state-of-the-art machinery that the company has successfully expanded in these areas. Alongside processing common thermoplastics and high-temperature materials, toolcraft now also manufactures components made of liquid silicone rubber (LSR) – including a cup lid and a lens.

Different products in just one mould

Working with long-standing partners for injection moulding and mould-making, toolcraft has successfully completed a challenging and innovative project. Collaborating with SKZ, Günther Heisskanaltechnik GmbH, Meusburger Georg GmbH & Co KG and Bestenlehrer GmbH, two moulded parts made of liquid silicone rubber with completely different geometries were manufactured in a single shot on a single mould. This included a cup lid with a diameter of 100 mm and a maximum wall thickness of 7 mm, with a shot weight of 28 g. And a lens with a diameter of 35 mm and a shot weight of 6 g, manufactured in the same mould. One challenge was the significant difference in shot weight between the two moulded parts, which was solved by using a balanced needle valve mould. Corrosion-resistant steels with good polishing properties were used on the injection mould for the basic structure and the inserts.

"Working closely with industry experts made it possible to complete this challenging project", says Markus Scheuerlein, Project Manager Mould Making at toolcraft AG. Thomas Lender, Business Unit Manager Injection Moulding at toolcraft AG, highlights the legacy of the project: "Our expertise in manufacturing precision micro parts meant we could create this mould for silicone injection moulding. Now, we are manufacturing silicone moulds for the industry as well".

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About toolcraft

The medium-sized family-owned company, located in Georgensgmünd and Spalt, was founded by Bernd Krebs in 1989. toolcraft is a pioneer of forward-looking technologies, such as additive manufacturing and the construction of customised turn-key robotic solutions. As a provider of comprehensive solutions, toolcraft covers the entire process chain, from the initial idea to manufacturing, quality assurance and testing in the areas of CNC machining, additive manufacturing, injection moulding and mould making. Its clients include market leaders in the semiconductors, aerospace, medical technology, optical, special machinery manufacturing, motor sports and automotive industries. Building close working relationships with collaborative partners as well as universities, other institutions of higher education and research centres is an important part of its corporate philosophy.