

Economic in vitro diagnostics

Standardised and modular plastic injection moulding technology

bürkert
FLUID CONTROL SYSTEMS

Good material quality and excellent rinsability of the channels have top priority, especially when it comes to in vitro diagnostics (IVD). Because the accuracy of the analysis results also depends on this. The solutions used must be economical; small quantities in particular play a major role.

How can you have your small series produced well and cost-effectively?
Quality and economic efficiency are not mutually exclusive.

Individual small-series production through an adapted injection moulding process

Our new modular solution approach makes it possible to produce quantities of as low as 250 units, and under economical conditions. In particular, high tooling costs for the injection moulds often make small series unattractive. The modular tool approach, where only the aluminium inserts and not the steel basic framework have to be customised, saves you valuable project time and reduces investment costs while maintaining the usual quality and functionality. This means you get a high-quality and standardised complete system that still allows room for your specific requirements.



Small series from 250 units



Reduce project duration



Reduce investment costs



Maintain the usual quality

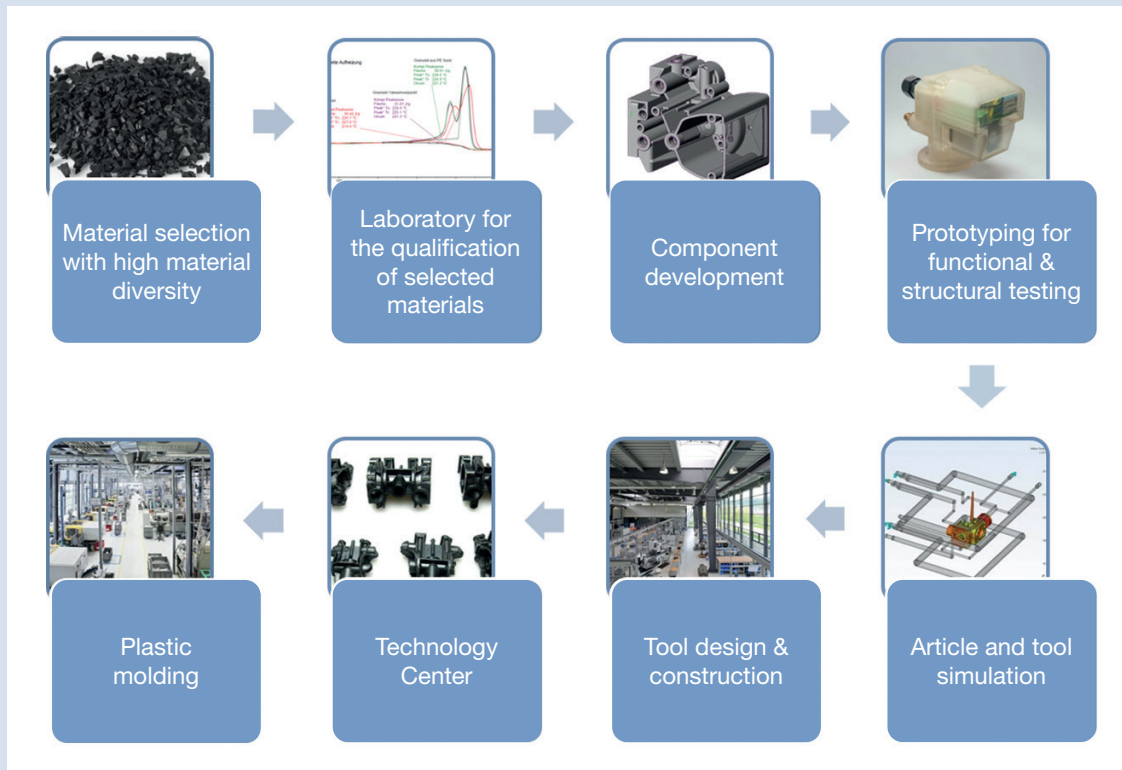


Room for customisation

Tool development, plastic injection moulding and in-house simulation

Due to our high vertical range of manufacture, the entire plastics process takes place under one roof at Bürkert. Put the fluidics in our hands so that you can focus on the overall design concept - your core competence. Whether development, simulation or testing, we deliver the parts produced in-house in the usual quality on time for your small series. Special requests, such as the integration of your enclosure parts, are also possible.

Discover the Bürkert plastic process from a single source:



Reliable media supply and cleaning of the system

For error-free and reproducible analysis results, there must be a reliable media supply in the laboratory equipment. For this purpose, the liquid and gaseous media must be continuously and reliably supplied. Depending on the process unit, there are various requirements on pressure, temperature, flow rate and particle content of the respective media. Accurate analysis results are essential for IVD, which is why cleaning the entire system without any residue is equally important. Thanks to the high flow coefficient and precise switching of the Bürkert valves, efficient and fast cleaning with a small amount of cleaning agent and at the same time a high sample throughput can be realised.

Exact repeatability and minimum switching times of the valves

We coordinate all the components in the dosing system to allow you to dose media accurately and reproducibly. The result: your output increases. Our systems also score in terms of safety, because all relevant components interlock like puzzle pieces and thus ensure the same switching behaviour of all valves. You too can increase your sample throughput with a system solution from Bürkert.

Are you developing analytical equipment for IVD laboratories and looking for a partner for fluid technology?

Together we will find the optimal solution for you. Feel free to contact us!