Injection Molding Solutions for the Medical Market
Tooling and Systems for Precise, High-Quality Plastic Applications
Husky, a leading industrial technology provider to the plastics processing community, offers a full suite of products optimized for plastic medical application manufacturing. Designed for the precision manufacture of targeted medical applications including injection systems, infusion and transfusion, diagnostics and laboratory, and health and hospital care devices, Husky provides high-quality tooling and systems, together with an extensive global customer support network.
Currently the only company able to offer a complete integrated injection molding solution to medical customers, Husky manufactures industry-leading molds under the Schöttli™ brand name, as well as machines, custom hot runners, Altanium® temperature controllers and Shotscope™ NX productivity monitoring software.

By providing the entire system, Husky is able to help eliminate variability from the injection molding process by making system-level enhancements that mitigate risk in the molding process, and ensure safer devices for end users. We are able to provide higher levels of productivity, less waste and improved part quality at the fastest possible cycle times, with a single source supplier to manage all system requirements throughout its life.

Benefits:
• 60 years of expertise in manufacturing tooling for plastic medical applications
• Focus on precision and high-quality to reduce process risk and ensure safer medical parts
• Extensive investment in research and development to provide predictive capabilities for product optimization
• Global customer support network providing unmatched service and support

Tooling optimized for plastic medical application manufacturing
With our years of expertise in medical tooling manufacturing, Husky provides industry-leading molds, with high cavitation and less maintenance required, ensuring better productivity and more uptime with no impact to product quality. Husky is focused on delivering the highest value to our customers, and invests significantly in our facilities to ensure the highest-quality manufacturing, allowing our molds to be optimized for high-speed, high-cavitation, high-volume applications. Our innovative technical solutions like our quick change system, cluster method gating and single-face or stack designs allow for consistent part quality, faster cycle times, and superior levels of repeatability in your injection molding process.

The Schöttli™ quick change system allows for threaded cores to be replaced quickly, directly from the parting line, reducing downtime and increasing the availability of the mold. The Schöttli™ cluster method includes two sided, symmetrical gating, which enables significant material savings. Our state-of-the-art manufacturing capabilities include a high degree of automation, allowing for the highest precision, with tolerances up to 0.005 mm.
Husky invests in research and development to ensure production of parts that improve the customer experience and ensure safety for the end-user—providing parts that are molded reliably and safely, with minimal variability. Mold development for complex, multi-axis medical parts can be a challenge. Our experienced engineering team finds the ideal solution for any medical application, looking at dimensional stability, material specification, finish and functionality. We also offer solutions for the four-axle unmolding cubic and rotationally symmetrical components with high-detail diversity.

Our medical application expertise enables:

- **Quality Control**—our degree of testing and validation ensures the highest standards of product quality and performance
- **Product Optimization**—support in product development and product optimization with respect to weight, material properties (thermal and mechanical analysis), and gating location
- **Fast pilot molds for target parts**—ensuring faster time-to-market with no impact on reliability and safety of the part
Integrated Systems for Medical Applications

Husky’s machine platform for medical manufacturing, HyperSync™ is specifically designed for high productivity, repeatability and low operating costs, and can be used for a wide range of applications. The HyperSync™ platform is robust and well-equipped to handle high-cavitation and stack molds, featuring our patented Reflex™ platen, which extends mold life by evenly distributing clamping forces. It also utilizes wide tiebar spacing, improving support for heavy molds and reducing mold wear.

With our all-new HyperSync™ integrated system for medical applications, we are able to offer system-level enhancements that improve part quality and precision, extend tooling life, and increase productivity. Increased electrification of the machine, including electric clamp lock, electric mold stroke, energy recovery system, and speed variable pump, ensures optimum energy usage and reduces overall operating costs.

Additionally, Husky offers a range of hot runner technology optimized for medical application manufacturing. Our hot runners are designed to fit an extensive range of application needs and offer a wide processing window, fast color change and excellent quality parts. Our Ultra Helix™ valve gate nozzles make it possible to direct gate parts with gate vestige so clean it is often unmeasurable. This level of gate quality lasts for millions of cycles—longer than any other valve gate currently available. Every hot runner is designed for the specific application, and melt channels are fully balanced and sized to fit the requirements of fast color change times and optimized cavity-to-cavity balance.

Also available to medical customers are our Altanium® temperature controllers, which come equipped with an intuitive touch-screen interface and provide two to 255 zones of control. Additionally, Shotscope™ NX process and productivity monitoring software allows molders to collect, manage and analyze production information in order to maximize productivity and reduce downtime.
Global Service and Support

Husky is committed to providing unparalleled service and support. In addition to producing the highest quality molds, we can also provide delivery and documentation, start-up service at the customer site, troubleshooting, advisory services and extensive training. Our mold and machine manufacturing facilities help customers bring products to market faster by providing manufacturing flexibility and the capacity to handle projects of any size in a quick and timely manner. Each location is equipped with state-of-the-art technology and equipment, enabling machines and tooling to be produced independently in all locations, with the same high level of quality.
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