Plastics industry
Connectors | Quick mold change solutions
Stäubli, a leading market company, continually pushes for innovation, addressing current and future needs for advanced connection solutions.

Developing and delivering high-performance solutions tailored to specific business requirements, as well as understanding and anticipating the trends shaping each branch of industry, is the strategy pursued by Stäubli, as global leader in advanced connection solutions for all applications: fluid, gas and electrical. Fluid mono-connections, electrical connectors, multi-connection systems for all energy sources, tool changers for robots or Quick Mold Change solutions... each Stäubli assembly is engineered and built from parts of consistently matched quality and design. Our solutions improve the reliability, efficiency, performance and usability of equipment, thereby raising the productivity and guaranteeing operator safety.

Unique expertise in the plastics industry Stäubli’s specialists understand the issues encountered in the plastics sector; reducing downtime, more part numbers to produce while reducing stock levels, ever increasing performance levels and less time to achieve them - all this in an increasingly competitive market.

Whether you want to reduce mold changeover times, ensure high performance or optimize non-production tasks, Stäubli can provide the full spectrum of solutions to save you time at every stage in the injection molding process and thus increase your economic efficiency. Automotive, white goods, home appliances, packaging, IT, electronics, building construction... whatever the sector Stäubli has been working closely with companies in the plastics industry for more than 60 years. With the complementary nature of the Group’s areas of expertise, it is now the sole global partner capable of providing end-to-end Quick Mold Change solutions, ranging from energy connection to process automation and robotics.
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OUR PLASTICS EXPERTISE

Speed up every stage of the tool change process

With solutions prior to production and for every stage of the process, Stäubli optimizes flexibility and productivity.

Mold maintenance
Stäubli stations provide the ideal conditions all maintenance operations required on molds. They comply with the most stringent quality and safety standards and offer the option of carrying out preventative maintenance, thus ensuring their reliability during production.

Mold transfer and loading
Whether it is fixed or mobile, manual or automated, the design of each Stäubli transfer station is customized so that it precisely matches the requirements of each installation and mold change process.

Connection of energy circuits
Stäubli’s range of quick-release couplings, electrical connectors and centralized connections cover all temperature control, core pulling, sequential injection and thermocouple applications, providing high levels of performance and safety.

Mold preheating
Production changeover times are also optimized prior to the process. Stäubli offers quick-release coupling solutions for all the energy circuits on preheating station. So the molds are immediately operational.

Gripper parking
The gripper parking is consistent with Stäubli’s modular tool changer concept. Customize the docking station with additional components to provide the exact solution for customer requirements.

Parts handling
With 6 axis robots and risk-free human-robot collaboration, Stäubli offers safe and efficient solutions for automatized applications.

Gripper handling
Stäubli robotic tool changer systems are designed according to a modular product concept that guarantees variable multifunctionality and optimum integration into all industrial robot manufacturing processes.

Ejector connection
The Stäubli automatic ejector coupling system allows a simple connection between the ejection mechanism, which is specific to each mold, and the cylinder or the ejector plate of the injection molding machine.

Mold clamping
Stäubli offers three mold clamping technologies, mechanical, hydraulic and magnetic, which are suitable for both existing and new presses. All our clamping systems are designed to be incorporated seamlessly into your installations and processes, while ensuring the safety of equipment and personnel.

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Part 1

Part 2

Part 3

Part 4

Part 5
Innovative solutions to increase productivity

The plastics sector has to face more and more stringent requirements in terms of flexibility and economic efficiency daily. The variety of injection-molded parts and increasingly frequent production line changeovers has a major impact on productivity.

Adopting processes that reduce down time in order to meet market requirements is central to the SMED (Single-Minute Exchange of Die) method and our QMC (Quick Mold Change) solutions. Stäubli’s specialists offer you practical, costed resolutions, based on a personalized assessment, that will enable you to reduce mold change times.

With a particularly high level of performance and reliability, Stäubli quick-release couplings have a significant improvement on the productivity of injection molding machines. By ensuring optimal flow, they optimize operations such as temperature control or sequential injection and allow you to save production time.

In line with industry 4.0, our automated solutions are already designed to meet the needs of tomorrow’s industry, and are therefore designed to provide increasing flexibility and further enhancing productivity.

Expert partners
The strength of the relationship Stäubli enjoys with customers is the key factor. Our specialists work closely with customers to fully meet their needs, within the framework of a genuine partnership.

Local services, on an international scale
For Stäubli, the quality of a solution goes beyond the product delivery. Whether it is for installation, user training or after-sales service, we have dedicated teams who provide each of our customers with the same quality of service, globally.

“We were already using quick-release couplings, and we have now automated mold loading and clamping. By integrating Stäubli solutions with our existing equipment we have optimized the economic efficiency and flexibility of production of each press. We can now meet all our customers’ requirements without having to invest in a new press.”

Helen K.
Plastics industry project manager.

All our solutions on our dedicated website:
www.quick-mold-change.com
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Global presence of the Stäubli Group

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