

Plastics industry

Connectors | Quick mould change solutions





FAR-SIGHTED PARTNER

An international group serving all industrial sectors



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 Mould 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 down time, 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 mould changeover times, ensure high performance or optimise non-production tasks, Stäubli can provide the full spectrum of solutions to save you time at every stage in the injection

moulding 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 Mould Change solutions, ranging from energy connection to process automation and robotics.



50
countries



5,000
employees worldwide



12
production sites

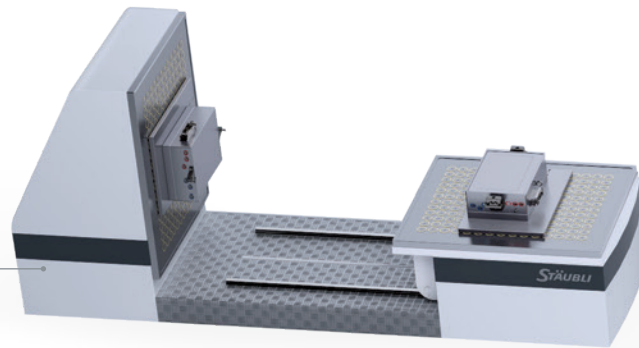


over
10,000
testimonials in plastics sector

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 optimise flexibility and productivity.



Mould maintenance

Stäubli stations provide the ideal conditions for all maintenance operations required on moulds. 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.

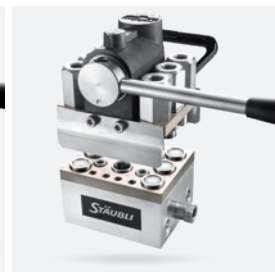
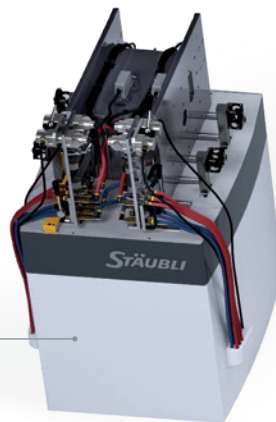
Mould transfer and loading

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



Mould preheating

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



Gripper parking

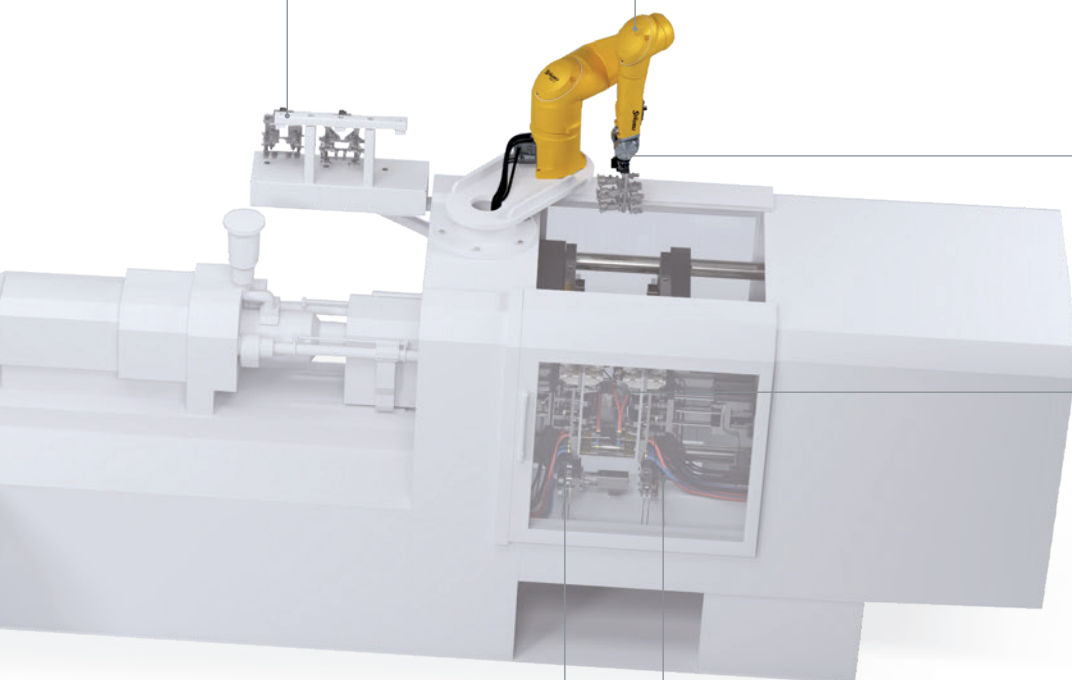
The gripper parking is consistent with Stäubli's modular tool changer concept. Customize the docking station with additional components to provide the exact solution to meet customer requirements.

Parts handling

With 6 axes 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

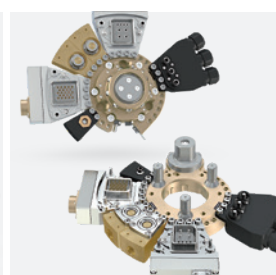
The Stäubli automatic ejector coupling system allows a simple connection between the ejection mechanism, which is specific to each mould, and the cylinder or the ejector plate of the injection moulding machine.

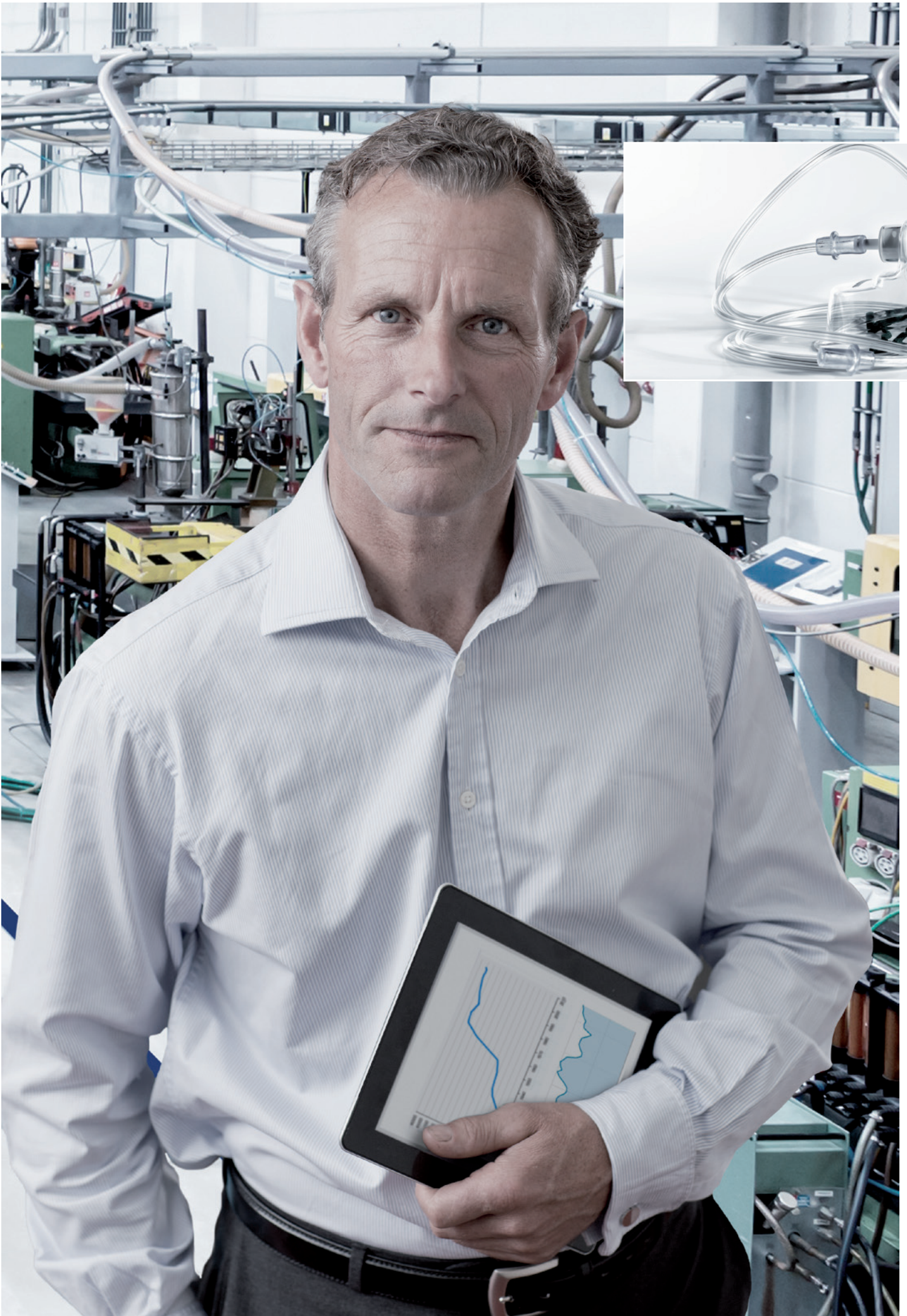
Connection of energy circuits

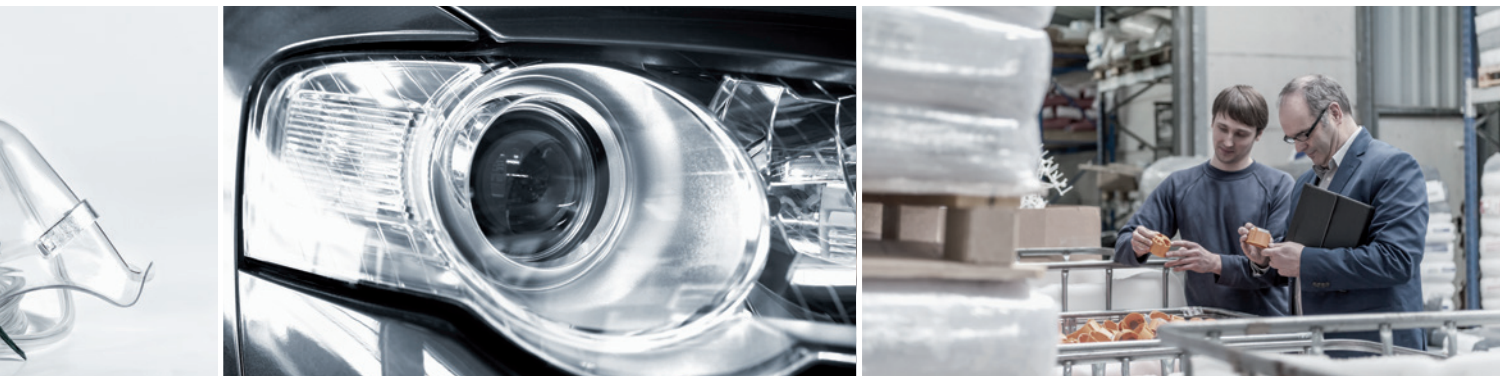
Stäubli's range of quick-release couplings, electrical connectors and centralised connections cover all temperature control, core pulling, sequential injection and thermocouple applications, providing high levels of performance and safety.

Mould clamping

Stäubli offers three mould 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.







ENGINEERING EXPERTS AT YOUR SERVICE

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-moulded 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 Mould Change) solutions. Stäubli's specialists offer you practical, costed resolutions, based on a personalised assessment, that will enable you to reduce mould change times.

With a 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 optimise 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

“We were already using quick-release couplings, and we have now automated mould loading and clamping. By integrating Stäubli solutions with our existing equipment we have optimised 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.

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 our clients 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.

All our solutions on our dedicated website:
www.quick-mould-change.com



■ Stäubli Units ○ Agents

Global presence of the Stäubli Group

www.staubli.com