Mould changing tables and mould changing trolleys

Plastics industry
Flexible processes and optimal production times in the plastics industry

Stäubli has been your partner for system solutions in the plastics industry for more than 50 years. We manufacture fluid and energy connectors, ensure that tools can be changed quickly and develop tailor-made solutions to automate processes. Stäubli high-performance robots also ensure the highest productivity when handling parts and reworking.

Extensive research and development establishes the basis for the efficiency, capability and process reliability of our products. Our innovative solutions to minimize setup times and to automate production are recognized worldwide, and with support centres on every continent, we can provide you with expertise at your location.

Stäubli quick tool change systems make your production process more flexible and ensure optimum production times. Our systems can also optimize productivity on existing equipment.

See our capabilities for yourself and use our know-how for your specific applications.

Visit our website www.quick-mould-change.com and request our overview brochure detailing our solutions for the plastics industry.
Rapid and reliable changing of moulds is a critical factor for being competitive in the plastics industry. Each process step must be matched to each other in order to achieve the highest levels of efficiency: Starting with the logistics in the mould store followed by the mould transfer and finally to the clamping and connection of the mould in the machine.

System solutions from Stäubli
Stäubli stands for quality, performance and safety. We develop and implement customised system solutions specifically for the plastics industry.

To do so we examine the existing mould changing process in your company. Based on our analysis we develop a co-ordinated process management, in which the individual steps of mould changing are optimally dovetailed with each other.

Mould changing table and trolley
The co-ordination of your machining facilities with the Stäubli mould changing table and trolley reduces unproductive preparation times to a minimum. The “Single Minute Exchange of Die” (SMED) process from Stäubli brings the highest levels of efficiency to your mould changing process.

Logistics in the mould store
The mould changing system from Stäubli actively communicates with production planning, providing intelligent tool transfer with optimised transport paths. In this way your moulds can be brought into “pole position” in good time ready for the upcoming change. So the added value chain has already started as early as the mould store.

Planning and implementation
Thanks to over 50 years of experience in the plastics industry, Stäubli can offer tailored tool changing solutions for every requirement. From development to success: All components are developed, manufactured, installed and commissioned into reliable production by us.

Our global cooperation with all leading machine manufacturers guarantees maximum efficiency and functionality.

After sales service
The after sales service from Stäubli ensures that your system works efficiently throughout its complete life cycle. Our specially trained Account Managers ensure that your mould changing system remains up-to-date using Internet based remote maintenance. Software updates are always available to you immediately after release. With acute problems the Stäubli online support provides rapid and uncomplicated fault rectification.
Step by step
to a customised solution

For efficient mould changing in the plastics industry, we offer perfectly matched system components.

Mould transfer
Mould changing trolleys from Stäubli use the following techniques to bring your moulds into position with millimetre precision:
- Push-Pull manual (up to max. two tons mould weight)
- Push-Pull driven
- Roller track driven

Interaction with the machine control system
Stäubli transfer systems communicate with your machine via a Euromap71 interface. The mould change can be conveniently controlled with a Stäubli touch panel or - in the fully integrated solution - directly via the machine control panel.

Height adjustment
Various mould transfer heights are often found in mixed machine installations. Stäubli’s control system identifies the transfer height required via the interface. Then the integrated height adjustment system automatically ensures precise adjustment. Manual intervention is no longer required.

Safety equipment
Stäubli places great emphasis on safety. We determine and install the optimum solution for safety in your processes and for your employees in accordance with your requirements and the legal regulations.

Mould temperature control
Maintaining the correct temperature of the mould to be introduced avoids unproductive machine downtime. Stäubli offers innovative connection solutions for mould temperature control: From leak-tight quick release couplings through to fully automated multi-couplings for temperature control, hydraulics and electrical energy.
Ideal for optimising mould changing on a production cell with one or two machines: Our stationary mould changing tables provide a high degree of flexibility and economic efficiency.

Thanks to the standardised modular construction of our mould changing tables we can offer a solution perfectly tailored to your requirements for all sizes of machines and moulds in the shortest of timescales.

**Single table**
This basic variant offers space for one mould. The single table is loaded by means of hoisting gear and can be used either with one machine or between two machines.

**Double table**
With space for two moulds the double table is suitable for fully automatic mould changing at the push of a button. As with the single table, this variant can also be operated with one machine or between two machines.

**Special solutions**
Thanks to our many years of experience in the plastics industry we are able to address your specific requirements individually. Our specialists are available to support you on-site and will be happy to develop a customised mould changing concept with you.
Rail-based and freely movable trolleys for horizontal mould changing

With mould changing trolleys from Stäubli you can achieve consistent flexibility for your automated production area. Our solutions take over both the mould transport between the store and the machine and mould changing on the machine. Depending on requirements our mould changing trolleys offer space for one or more moulds.

Rail-based trolleys
Rail-based trolleys are ideally suited to production areas where several machines, mould stores and pre-heating stations can be arranged along a track system.

The trolley movements and the mould transfer in and out of the machine are carried out automatically. At the same time a precise distance measurement system ensures that the mould changing trolley is always positioned precisely in front of the machine or directly at the storage station.

Stäubli delivers the complete system to you from a single source: From the design through to operation. Rail systems are part of the full service package combined with safety systems and integrated communication with the production systems. This enables us to provide you for all your requirements with the Stäubli quality recognised throughout the world.
Freely movable trolleys
With the use of freely movable trolleys you can achieve maximum flexibility within the production area. Our intelligent solutions provide automatic mould changing, regardless of the arrangement and size of the machines.

The freely movable trolley can be moved manually, up to a load carrying capacity of 1.5 tons. With higher loads, battery-driven solutions with powerful electrical drives are used.

The control of the trolley is implemented either manually, as with a lifting trolley, or by remote control via cable or WLAN.