Bringing you high speed and reliability for higher productivity and quality.

Stäubli Robotics, the market leader with a global presence, is your innovative partner for automation in sterile environments. Leading companies worldwide rely on us for quality, experience and expertise.

Focusing on lean manufacturing our advanced solutions have the power to increase your productivity, improve your processes, save time and reduce costs.

Talk to us about your ideas and concepts for automation. We can provide the optimal solution tailored to your specific requirements, giving you high value-added results.

Inside:

- In gray, white and sterile environments, Stäubli is your first choice in every field
- Speed in standard environments
- Precision in the cleanroom
- Safety in sterile environments

Special edition for the Medical, Pharmaceutical and Life Science Industries
Benefit from our expertise in the medical, pharmaceutical and life science industries

In gray, white and sterile environments, Stäubli is your first choice in every field

Stäubli has long been dedicated to developing robots for use in the medical, pharmaceutical and life sciences industries. Today, Stäubli robots are the first choice for applications in these industries. Our broad range of SCARA and articulated robots offers the optimal machine for product environments from Specifications A through D.

For many years now, Stäubli’s robots have been the benchmark for applications in which the robot’s speed and precision are less critical than factors such as low particle emission, easily cleanable special surfaces and exceptional reliability.

Whether for sterile or standard environments, complex or routine tasks, Stäubli offers the optimal robotic solution for your entire range of applications.

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Put these added advantages to use:
- High productivity, production safety and sterility by means of fast and secure handling
- Improved working conditions and employee safety, minimized accident risks
- Consistently high quality and improved quality control
- Reliability and flexibility
Robotic solutions from packaging…

Speed in a standard environment

The next generation of SCARA robots, TS40 / TS60 / TS80 are the fastest in their class.

In line with the Stäubli motto: “Modern automation solutions for the working world”, the ultra-fast TS80 has recently taken over part handling at B. Braun Melsungen AG – one of the world leaders in the healthcare marketplace.

Bringing high speed to Class D standard room environments, Stäubli’s new SCARA robot delivers high precision in the range of 0,1 mm.

In the production of orthopedic implants, surface quality is of pivotal importance. Achieving it depends on processing operations such as deburring, grinding and polishing, which must be performed with extraordinarily high precision, regardless of whether the product is a simple nail or artificial knee or hip joint. Today, many of these operations are automated.

Swiss manufacturer Insys Industriesysteme AG has developed three high-performing robotic machining cells for orthopedic implants, each integrating a Stäubli robot. Three different sizes – the M400, M500 and M600 – are designed for producing implants of various sizes. Outstanding precision and path control make Stäubli robots ideally suited for executing these demanding processes, many with tolerances as low as three hundredths of a millimeter, with equally outstanding results.

While the RX160 handles the medicine pouch, the TX200 is responsible for delivering and positioning the temporary sheet metal stages.

Hekuma, Germany, has developed a modular cell focusing on a cost-effective high performing automation concept.

The very compact Hekucell can be adapted to a various number of Injection Molding Machines. The high precision and speed of 6axis Stäubli robots make them ideal for the use of highspeed de-molding of pipettes.

At the renowned pharmaceutical company Bayer Healthcare, two Stäubli articulated robots, the RX160 and TX200, work in tandem on the packaging line for liquid medicines.

The prerequisite for use of the robots in this environment was compliance with the relevant cleanroom classification – which the robots fulfill in their standard design, thanks to their easy-to-clean encapsulated design.

While the RX160 handles the medicine pouch, the TX200 is responsible for delivering and positioning the temporary sheet metal stages.

Complete gripper control thanks to cables running through the quill.

**TS Model Features**

- Ultra-fast and precise, with 100 picks/minute
- High payloads at high speed
- High dynamics due to a high rigidity
- Large working area with a 200 mm or 400 mm stroke
- Several cable connection options
- Electric and pneumatic connections as well as user installation available on the forearm and the flange
- IP 54, angular connector and bellows provide strong protection against dust and fluids.
... to dosing and injection molding...

**Precision in the cleanroom**

Loccioni humancare chose for its system APOTECAchemo, Stäubli’s articulated arm that perfectly replicates the manual operations of chemotherapists in hospital pharmacies.

Pick from the carousel device, positioning and preparation for dosing, sampling and injection of the active ingredients from the initial containers to the final ones and placement of the disposable on a balance: these are the movements that the robot executes to prepare safely the cytostatic drugs, which are hazardous to healthcare personnel health.

The production of medical parts is one of the most challenging fields of mechanical engineering. A hundred percent control of production processes under clean room conditions is one of the top requirements with an integrated clean room robot in an injection molding cell.

There is a broad spectrum of concerns regarding single-use medical parts from syringes, infusion sets, dialysis equipment and apparatus, diabetes care products up to surgery implants. Some of these challenges are with changing parts which due to the high flexibility with six-axis handling robots, the cell can easily be adapted to new production tasks.

Stäubli’s TX60 cr provides consistent product quality in the medical technology system of RENA GmbH.

The wet chemical handling of implants, stents and syringes is no problem for the ultra-precise TX60 cr.

HighRes Biosolutions, Inc. is a global provider of innovative robotic solutions for laboratory automation in the pharmaceutical and biotech sectors. With tabletop assembly automation, high-performance customer-oriented solutions can be accomplished in the smallest of spaces.

The flexible and reliable use of robots allows for a myriad of applications, from compound management through storage and registration all the way to High-Throughput Screening (HTS). In this modular system, one or two six-axis robots can be used for testing processes and easily adapt to ambient conditions.

In Intelligent Hospital Systems’ “RIVA-System,” the highly precise TX60L cr – which, due to its enclosed design and minimal footprint, is especially applicable for use in a cleanroom – handles the filling of hypodermic needles and infusion bags.

Every patient profile requires a customized formula of medicine and thinners. The TX60L cr delivers precise dosing of the correct medicines without human intervention.

**Increasingly stringent requirements for cleanliness in production present growing challenges in the industry.**
...to filling.

Safety in sterile environments

Keys to Contamination Control: Robots in Aseptic Drug Manufacturing
The manufacture of aseptic drugs poses unique challenges - foremost among them contamination by the operator. As part of their Advanced Aseptic Processing (AAP) systems, pharmaceutical companies are increasingly implementing isolator-barrier technologies to restrict operator access. Stäubli’s TX series stericlean 6-axis robot arms were developed specially for safe integration into critical aseptic areas, enhancing AAP systems and product safety overall.

TX stericlean features
- Special surface treatment
- Critical parts made from stainless steel
- Specific lip seals
- System and user interfaces protected under the foot of the robot
- Spherical working area with a small foot print
- Good Manufacturing Processes compliant (GMP)

Aseptic isolator with a Stäubli stericlean 6-axis-robot arm.

Pharmaceutical, medical and life science applications. Designed to protect both staff and product, the fully H₂O₂ resistant Stericlean robot automates processes now even in isolator and cleanroom environments. Stericlean allows you to optimize and protect your productivity with the highest standards of quality, accuracy, flexibility and reliability.

Staubli Robotics is your partner of choice for aseptic automation.

A German leader in technology for processing pharmaceutical solutions uses two TX90 stericlean robots in its new line for the aseptic filling of infusion bags, which work fully automatically and can be completely sterilized. The TX stericlean robot system made it possible to keep the entire filling room sterile and guarantee aseptic filling.

Stericlean robots can be put to constant use in vaporous hydrogen peroxide environments while fulfilling the highest demands in product hygiene and economic viability.

At a Belgian health and life sciences company specializing in radioisotopes, a TX40 stericlean robot works at the sterile bank, minimizing the risk of contamination.
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