Stäubli robots for your food production processes
About Stäubli

Stäubli is a global mechatronics solution provider with three core activities: Connectors, Robotics and Textile. We are an international group that currently operates in 29 countries, with agents in 50 countries on four continents. Our global workforce of 4,500 shares a commitment to partnering with customers in nearly every industry to provide comprehensive solutions with longterm support.

Stäubli Robotics
Stäubli Robotics is the only manufacturer of industrial robots to control all components of the robot, from gearboxes to embedded software.

Thanks to these innovations, Stäubli robots offer unequaled performance. As robots become more and more efficient and intelligent, they comes to take their place in production alongside man.

A unique 4 axis and 6 axis robot range for all applications
Whenever industrial companies need speed, repeatability or reliability, Stäubli robots provide the most appropriate answer. To satisfy its customers, Stäubli Robotics has developed specific solutions, meeting the needs of all industries: electronics, medical, automotive, food, plastics, mechanical or painting.

Designed to work in the most hostile environments, but also to meet stringent cleanroom requirements, Stäubli robots demonstrate their efficiency in all circumstances.

The invaluable addition of a powerful robot
To fully make use of a robot, essential preliminary studies must be conducted into its upstream integration, to determine its correct power and options. Training of operators and technical support teams to handle malfunctions also contributes to optimising productivity. This is why Stäubli uses teams who know their product and your business requirements perfectly, at every stage of the robot's development on the production line.
In my job, carrying loads and arduous tasks are commonplace. With its network of specialist integrators, Stäubli was able to recommend concrete solutions to make life easier for my teams. I was able to both boost productivity and streamline working processes. Stäubli was the only company able to meet my needs using robots that are suitable for my sensitive working environment.
The sheer number of recipes and rapid changes to production have been easily robotised thanks to Stäubli’s innovative solutions and in-depth knowledge of my processes. The deciding factor for me was the ability to live-test all of their suggested solutions.
Food processing

- Placing utensils
- Boxing
- Palletizing
DAIRY INDUSTRY

Milk processing

Stäubli has developed a complete range of robots designed for my industry and adapted to our cleanliness constraints. I can finally do away with our covered robots which, until now, had always been a major concern in terms of bacterial contamination. For me, Stäubli robots are the only ones able to meet the requirements of my working environment, with a very high level of performance.
Food processing

Turning

Cutting
Spraying
Slicing

Tray loading

Palletizing

Boxing
There are numerous options on the market for high-speed box-filling solutions. I was particularly drawn to the fact that the robots were designed with no motors or mounts above the product, and all with much higher productivity than conventional delta robots. My line is better integrated and more compact, and the attention paid by Stäubli to helping my team improve their skills was the icing on the cake.
Mixing
Box loading

Palletizing

Boxing
The precision of Stäubli robots has meant that I have been able to create decorations that are impossible to do by hand at such speeds. My R&D and business teams can give free rein to their creativity, and the versatility of the robots allows the production teams to adapt easily to all of my customers’ needs. Stäubli and its partners have been vital in the creation of a simple and educational recipe creation interface.
HE ROBOTS RANGE

A range of robots designed for the food processing industry

Extremely robust robot
- Stainless steel fastenings

Compatible with the most commonly-used cleaning solutions
- Robot resistant to pH 4.5-8.5 environments

No liquid retention area that could lead to corrosion
- Smooth surface with rounded edges

Flexible integration into the production line
- No need to modify cleaning procedures (HACCP)
- Small footprint
- Different attachment methods

Work in a sensitive environment
- Cable outlet under the foot
- Specific seal

Minimal maintenance, strength, speed and superior precision
- Stäubli JCS reduction gears (patented)

Optimum cleanliness, freedom of movement of the arm and increased production
- Cables and hoses routed into the arm for enhanced arm reliability
- Closed structure

Optimum workload
- Reduced footprint
- Large working envelope

Customisable colour and texture
- Choice of finishes

Elimination of complex cable management
- Direct connections in the robot’s arm due to integrated power lines or Ethernet cable

Precise trajectory performance
- Improved part quality
- Reduced rework costs
- Rigid structure
Our software solutions

VALtrack

Stäubli’s flow management solutions

VALtrack guarantee optimum performance, whatever the operational constraints and type of production line.

- Flow management of products and trays in all configurations
- Tracking for product pick and place operations
- Sorting products on the conveyor or in a tray
- Solution for mixing products in packaging
- Management of non-compliant and downgraded products
- Easy introduction of new product types
- Tracking of all production events

- Multi-robot line management
- Balanced distribution of robot loads
- Dynamic adaptation of robot speeds
- Production uninterrupted if one or more robots are stopped for maintenance

uniVAL is a “plug and play” solution to drive Stäubli’s entire range of robots with generic industrial multi-axis controllers or PLCs.

uniVAL plc  uniVAL drive
Global presence of the Stäubli Group

www.staubli.com