FAST MOVING TECHNOLOGY

STÄUBLI

Enabling easier, safer and sustainable production

Positive Robotics

EDITORIAL

Making your work easy and safe with Positive Robotics

Stäubli's vision, **"we make work easy and safe"**, and our four values, People, Passion, Performance and Partnership, guide us in taking social, economic and environmental responsibility for all our actions.

Our sustainability strategy consists of three main pillars:

- Ensuring the most value for you, our customers
- Providing value for our employees
- Safeguarding our planet

In the following pages, you will find how Stäubli Robotics enables easier, safer and sustainable production.

"For over 130 years, high quality standards and long service life have characterized Stäubli products for generations. As we continue to prioritize sustainability, we are actively working to gather data on our carbon footprint of our largest production sites, ensuring that our premium products and services deliver sustainable improvements in your industries and society. "

Pauline Desfontaines
Corporate Sustainability Manager

"Our automated solutions accelerate the future of smart and sustainable production, improve workplace health and safety, help reduce waste and drive improvements in global health. Stäubli Robotics is making key contributions in various domains, especially by helping you create safer workplaces for your employees."

Christophe Coulongeat
Robotics Executive President

Our Commitment

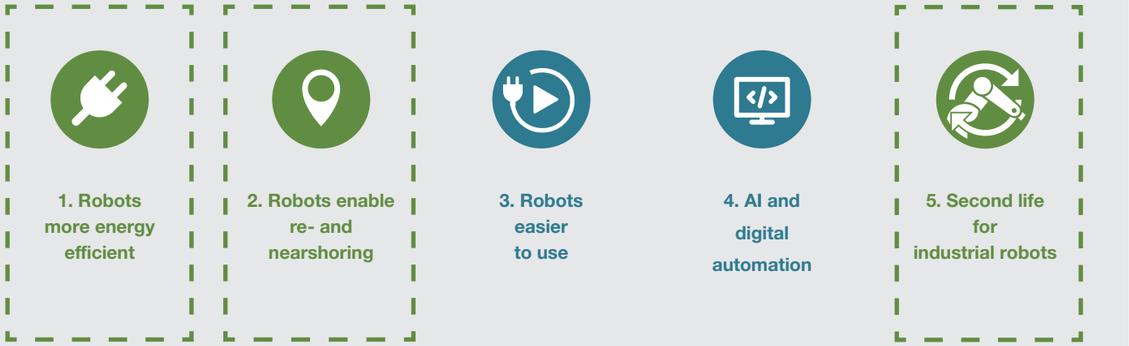
When Stäubli Robotics was founded over 40 years ago, sustainability was already part of our history and DNA. Premium quality products and services bring you – and society in general – sustainable improvements in your various industries.

For workforces looking for greater well-being in their job, installing our automated manufacturing lines in challenging environments (cleanrooms, aseptic or hygienic and humid environments) relieves them of their demanding tasks. Automation helps reshore your manufacturing processes, where long-lasting robotics and maintenance solutions serve to reduce your waste and energy consumption. Additionally, the Robotics Division contributes to improved global health with robots tailored to the pharmaceutical sector and medical robotics that enable greater precision and safety to complex microsurgical procedures.

Stäubli robots foster global health

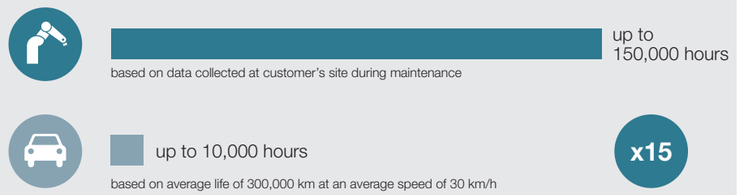
Most of our robotic products last for years. Your equipment may still run after 150,000 hours – or over 17 years of continuous use. Its lightweight design, made for performance and safety, includes innovative energy savings functions built into the robot controller. Embedded safety functions create safer workspaces. Good recyclability helps contribute to the sustainable conversion of resources. Finally, we resolve over 80% of problems remotely. That is faster for you, with no travel emissions.

Of the top global Robotics trends in 2023, three out of five are ESG-related



Source: International Federation of Robotics

Life expectancy of a Stäubli robot compared to a car



SOCIAL

People are most important

Amongst Stäubli's four values, people come first

We make our employees a force for a positive impact by fostering a more diverse, inclusive and empowering culture. Here are a few of the ways that our 130-year-old family culture at Stäubli Robotics helps.

- All new employees are onboarded in a 6 days program and introduced to our customer satisfaction strategy and our business ethics principles
- Increasing the number of apprentices injects fresh ideas into our workforce
- We encourage exploration and stimulation at work
- Developing skills ensures that our employees change in step with your industry
- Reaching full potential comes through well-being and quality of life at work
- Stäubli employees stay for many years, and have extensive knowledge of our products in your sectors
- We promote transparency and professional equality
- Job flexibility thanks to possibility of working from home
- Value sharing via profit sharing agreements, group savings plan, contingency benefits

Cécile Desseux
Robotics HR Officer

ENVIRONMENT

Our environmental policy at our main production site

With 95% of our robots produced at our Faverges site in the French Alps, our environmental performance is one of our priorities. In addition to complying with strict compliance regulations, we deploy our environmental actions along two lines:

- Optimizing and controlling resource consumption
- Preventing and reducing the impact of our activity on the environment.

90%
of waste recovered

fuel consumption cut by
2/3

2008 2022

LOCAL FOOTPRINT

Preferred suppliers close to our site

Since the founding of Stäubli Robotics 40 years ago, working with local suppliers has positively impacted the robots you use.

The most effective robots are the result of collaboration, teams of people who contribute their expertise to designing useful products. We have always worked closely with our suppliers, particularly during the product development phase. Being located close to each other helps us develop faster and better, while also reducing long-term inventory and transportation costs. Our strong relationships ensure that robots continue to perform during their entire life cycle.

67%
of the components in your robots are purchased within a radius of under 500 km from our Faverges production site.

ENVIRONMENT

Optimizing your energy use

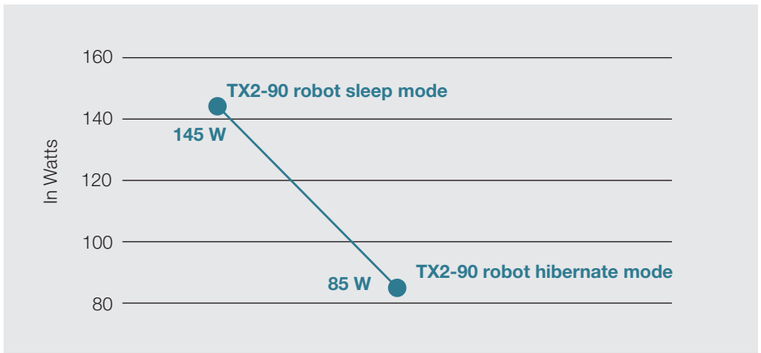
Improving energy consumption is key to your operations, as it reduces and enhances the use of existing resources.

Furthermore, with our new generation of robots, your energy efficiency increases by another 10%, as measured when repeating the same cycle. We test our entire robot range according to the standards established by the VDMA association, based on the following specifications.

Energy reduction thanks to hibernate mode

For some of you, energy consumption remains at 50% when your production line is idle. With our new generation of controllers (CS9 range), you can program your robot systems to enter hibernation mode. This cuts energy consumption by 40% when robot drives are off.

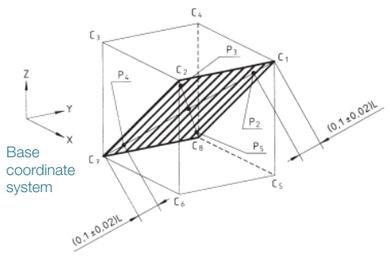
Up to 40%
energy saving

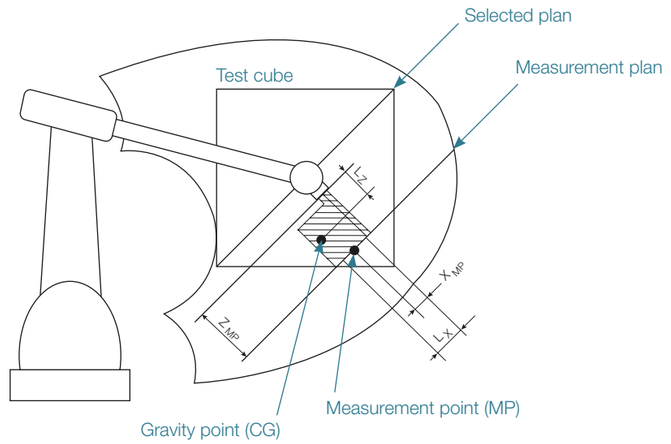


Test according to the VDMA 24608:2013-11

How we measure energy consumption

The energy consumption of our entire robot range is tested according to the standards established by the VDMA 24608:2013-11 based on the following specifications.

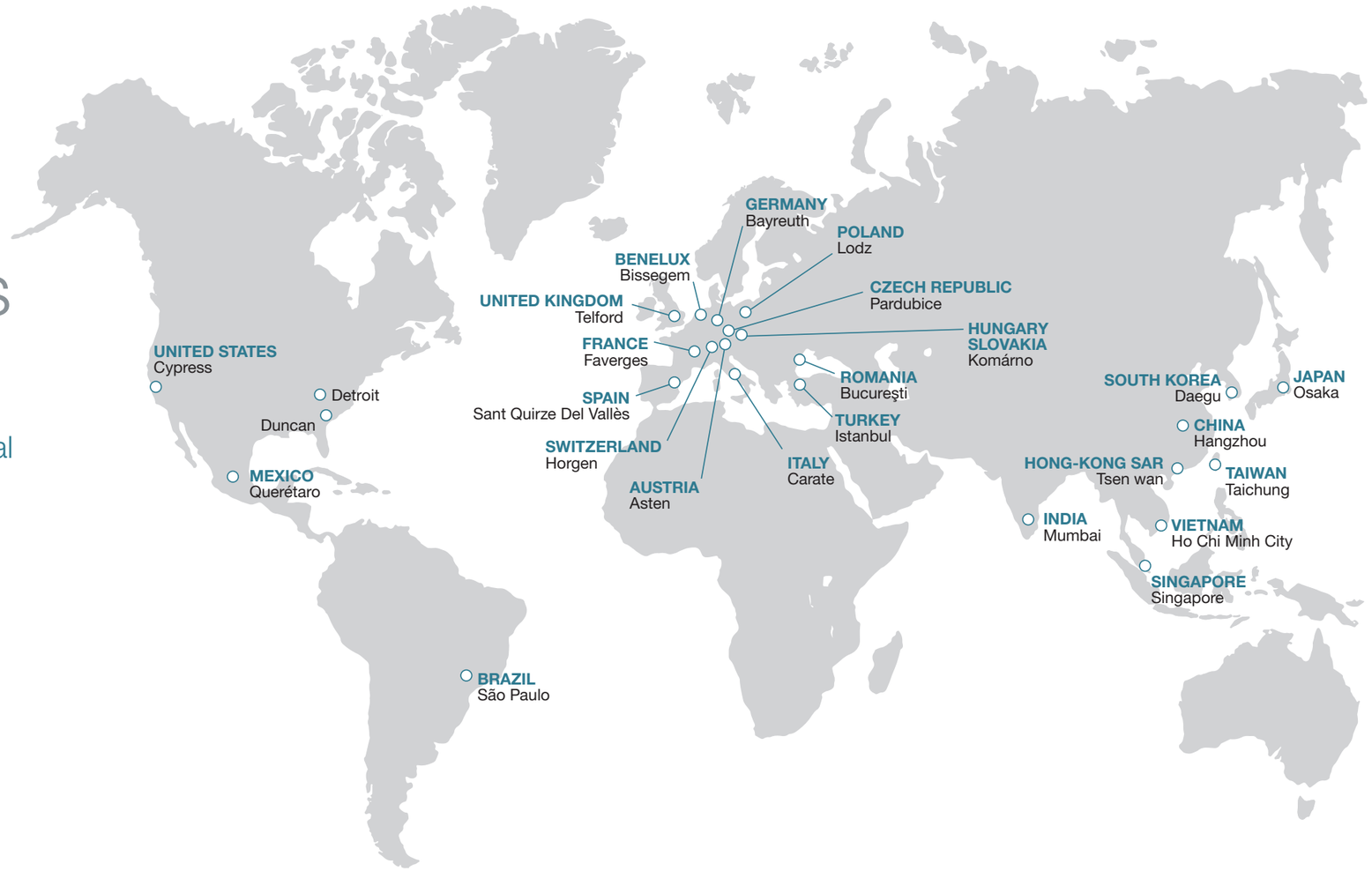




MAINTAINABILITY

Providing support throughout the entire lifecycle of your robots

The maintenance of your robotic systems plays a vital role in ensuring their long-term sustainability.



Global service presence

You are located all over the world, which is why we provide a robust global presence, with 26 strategically located service centers worldwide. These are hubs of excellence, where our state-of-the-art facilities and highly trained teams of field service engineers are ready for any eventuality. A swift and timely response minimizes your downtime and maximizes your operational efficiency.

Unparalleled parts availability

Maintaining the performance of your robotic systems requires readily available spare parts. With Stäubli, you are guaranteed 15 years of parts availability for your robots, above and beyond industry standards. In practice, we often surpass this commitment, extending parts availability even further. You optimize your investment and the productivity of your robots throughout their entire lifecycle.

Efficient stock management is at the core of our commitment to maintainability. Meticulous inventory control practices ensure that essential spare parts are readily accessible in all of our service centers. Through real-time monitoring and data-driven analysis, we continuously optimize our stock levels and rarely use express air shipment, minimizing environmental impact.

Sustainable long-term partnerships

Maintainability is a key aspect of sustainability. By collaborating with you over the long term to maximize the lifespan and performance of your robotic systems, we both contribute to reducing waste and avoiding the environmental impact of premature replacements.

15 years
guaranteed parts availability

26 **strategically located service centers**

Adrien Brouillard
Head of Customer Services

REUSE

Maximizing your robot lifespan to minimize their environmental impact

Reliability and long-term maintainability

To work in your demanding environments, robots must deliver exceptional performance and durability throughout their operational life. Long-term maintainability brings peace of mind, since it assures you that premature replacements will not be necessary. Some of our customers use our highly reliable robotic systems for decades.

Reusing robots

Reliability and maintainability pave the way for the reuse of robots. When you decide to upgrade or replace your existing robotic line, we encourage you to consider reusing your current system. Thanks to their robustness and longevity, Stäubli robots can be easily repurposed for various applications. Together, we contribute to reducing electronic waste and resource consumption.

Second life services

Our highly skilled technicians perform a thorough refurbishment process, which includes the replacement of worn components, meticulous cleaning and comprehensive quality inspections. Robots are restored to their optimal condition, ready to deliver reliable performance in their new application.

Benefits of second life solutions

Opting for Stäubli Robotics' second life solutions brings you numerous advantages. Firstly, it significantly reduces the overall cost of acquiring a new robot. Additionally, the reuse of robots supports a more sustainable manufacturing ecosystem: less electronic waste, resource conservation and a lower environmental footprint compared to manufacturing a new robot. We work actively together to identify opportunities for reusing robots, helping you unlock additional value from your investments while supporting your sustainability goals.

Stäubli robots can reach over 150,000 hours of operation

Regular maintenance maximizes your robot lifespan

SUCCESS STORIES

Less arduous working conditions at the fish auction

The port of Guilvinec is the second largest in France in terms of landed value. Its marketplace and auction are the link between producers and downstream buyers. The market provides workers and equipment for all applications (unloading, weighing, sorting, and selling fish).

For decades, operators managed materials that frequently required heavy manual handling of fish boxes in cold and humid conditions – a difficult environment. Workers' health was suffering from the hard labor.

To improve working conditions and reduce musculoskeletal disorder, the auction automated the process with RFID (Radio Frenquency Identification) chips and two humid environment (HE) robots from Stäubli. The robots have a hygienic design and guarantee compliance with all humid environment requirements. Workers are in better health, and productivity has increased too.

MSD reduction

Designed for cold and humid environments

Read more

SUCCESS STORIES

Safely carrying tons of equipment during manufacturing

Handling offshore wine turbine nacelles weighing hundreds of tons is a challenge. At the Siemens Gamesa plant in Cuxhaven, Germany, Stäubli automated guided vehicles master this undertaking precisely and reliably.

XXL is the standard when producing offshore wind turbines: 8 MW units have rotor blades that are over 81 meters long, and the nacelles weigh around 350 tons. Over 250 nacelles are produced each year, which means the 600 employees, with the help of four Stäubli automated guided vehicles (AGV), assemble one complete wind turbine nacelle everyday.

The plant is shifting production to the next generation of offshore wind turbines. These 11 MW behemoths have a rotor diameter of 200 meters and a nacelle weighing 30% more. To meet the demands of these new loads that exceed 500 tons, Stäubli AGVs can operate safely and reliably in coupled mode for added flexibility. The plant will also be commissioning a fifth heavy-duty AGV from Stäubli.

Electrical power

Renewable energy manufacturing

Read more

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Global presence of the Stäubli Group

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