

WELCOME TO SERBOT

THE WORLD OF ADVANCED CLEANING



SOLUTIONS FOR AUTOMATED CLEANING OF
SOLAR PANELS AND BUILDING FACADES

SERBOT
SWISS INNOVATIONS

YOUR SPECIALIST FOR ADVANCED CLEANING SOLUTIONS

MOBILE ROBOT SYSTEMS FOR CLEANING SOLAR PANELS AND BUILDING FACADES

Serbot AG is the innovative specialist in development and production of mobile and stationary systems for cleaning solar panels and building facades. Our expertise includes customized solutions from the idea to the installation and maintenance. Serbot AG stands for advanced technologies in Swiss quality.

Intelligent solutions for:

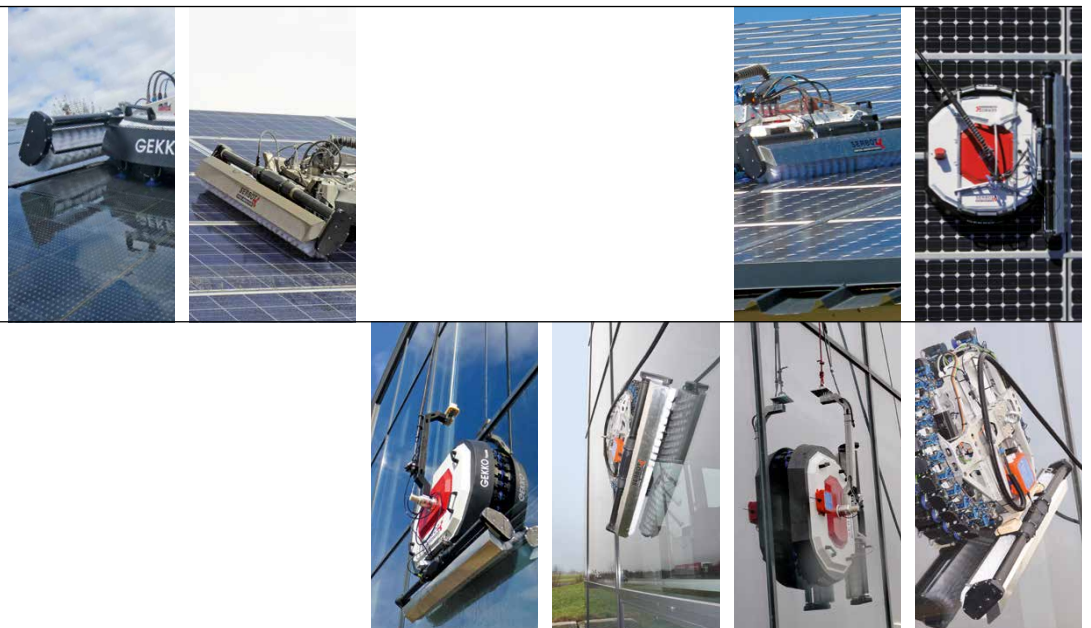
- Solar panel cleaning from rooftop installations to large free field solar power plants
- Building facade cleaning for various kinds of building shapes



Your most convenient way of cleaning:

- Highest cleaning performance
- The fastest way to clean
- No water stripes and stains
- Cost-effective
- Increased safety for cleaning personnel
- Allows for a cleaning inaccessible facades
- Time-saving

Pioneering solutions:



REVOLUTIONARY CLEANING SYSTEMS

SWISS PASSION FOR INNOVATION

The basis of the innovative Serbot products is a climbing robot system. It is designed to overcome the drawbacks of traditional cleaning methods. Serbot robots are especially dedicated to cleaning areas where other methods cannot work or cleaning is difficult using conventional methods. The once unthinkable – cleaning buildings of various architectural designs or working safely in exposed areas – is now possible!

THE INTELLIGENT METHOD AT A GLANCE

- Highest cleaning performance without water stripes and stains
- Faster than conventional methods
- Inaccessible facades can be finally cleaned
- Safe working conditions
- Best results regardless of the weather conditions
- Large areas can be cleaned efficiently
- Remote controlled system provides easy operation
- Environmentally friendly cleaning due to use of demineralized water



**SERBOT ROBOT CLEANING TECHNOLOGY
IS DESIGNED TO CLEAN AREAS WHERE OTHER METHODS
DO NOT WORK ANYMORE**

OUR SOLUTIONS AT A GLANCE

THE SMART COMBINATION OF FEATURES AND CONVENIENCE

SOLAR PANEL CLEANING ROBOTS

GEKKO Solar

GEKKO Solar Farm

The robot system **GEKKO Solar** is specially designed for the cleaning of roof top photovoltaic plants. Thanks to its optimized weight distribution GEKKO Solar can even move on frameless thin film panels.

GEKKO Solar Farm is developed for the special needs of large free-field solar power plants. Thanks to the very high cleaning efficiency (up to 2900 m² per hour) the GEKKO Solar farm offers an economic way of cleaning. A transport vehicle is part of the system and carries all necessary supply items like air, power and water. This allows to easily transport the GEKKO Solar Farm and supports its transfer from one panel row to the other during the cleaning process.



GEKKO Solar
GEKKO Solar Farm
(from left to right)

FACADE CLEANING ROBOT

GEKKO Facade

The **GEKKO Facade** is the world's first commercially available robot which can move autonomously on vertical surfaces. The various suction cups hold the robot on the glass surface while it remotely controlled moving in any desired direction. The robot is equipped with a special rotating brush for effective and efficient (up to 400 m² per hour) cleaning. In combination with a conventional facade lift, the GEKKO Facade can demonstrate its full strength and opens various opportunities.



GEKKO Facade Cleaning Robot
GEKKO Facade with Mono Rail
GEKKO Facade with Boom Lift
(from left to right)

FACADE LIFTS

Single Seat Si92/Si96

NEX-system

Depending on the building, there is the choice between a **mobile system** for flexible use or a **stationary system** installed on the roof top. The **Single Seat Si92/Si96** are the mobile systems for flexible use. They offer a technically advanced and reliable solution for buildings up to 100 m height.

The **type NEX** is a stationary system and is available in various configurations. It allows an easy and safe access to the building facade.

ADVANTAGES OF SOLAR PANEL CLEANING

It is proven that over time contamination (due to bird droppings, dust, pollen, algae, moss) threatens the cost effectiveness of a photovoltaic (PV) system. Reduced performance and up to 30% yield loss can be observed. The solar panels cannot be completely cleaned by rain only and there is a strong demand for professional assistance due to considerable risks and the inefficiency associated with manual cleaning. Serbot has the answers!

GOALS OF SOLAR PANEL CLEANING

- Removing light absorbing or reflecting pollution
- Increasing the power output of the panel
- Increasing the durability of the panel
- Maintaining the value of the solar plant

CUSTOMER BENEFITS OF USING SERBOT SYSTEMS

- Increased photovoltaic yield
- High cleaning performance thanks to soft-brush technology
- Stripe and stainless drying, even under direct sunlight
- Safe working conditions
- Environmentally friendly cleaning using demineralized water

ADVANTAGES OF FACADE CLEANING

Over time, the pollution of the facade due to dust, fumes, bird droppings etc. becomes increasingly visible. As the facade gives the first impression of a building, it should accordingly be carefully maintained. Thus, a periodic cleaning is recommended to retain the value of the building. Imaginative forms of modern buildings can complicate cleaning. Regardless of the form and type of facade Serbot makes your facade shine easily and quickly.

GOALS OF FACADE CLEANING

- Removing of all kinds of contamination
- Preserve the value of the building

CUSTOMER BENEFITS OF USING SERBOT SYSTEMS

- Various facade forms are cleaned easily
- Optimal cleaning quality without leaving water stains
- Faster than conventional methods
- Areas so far unreachable can be thoroughly cleaned
- Increased security for the personnel in the workplace
- Environmentally friendly cleaning using demineralized water

WELCOME TO THE WORLD OF ADVANCED CLEANING



VERSATILE CLIMBING OPPORTUNITIES FOR GEKKO

The unique capability of our robots to climb vertically or even to crane surfaces, enables Serbot systems to cover a large variety of applications. We research and develop ideas for your convenience. Contact us now to learn more about the latest thrilling climbing opportunities.

CONTACT US NOW



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