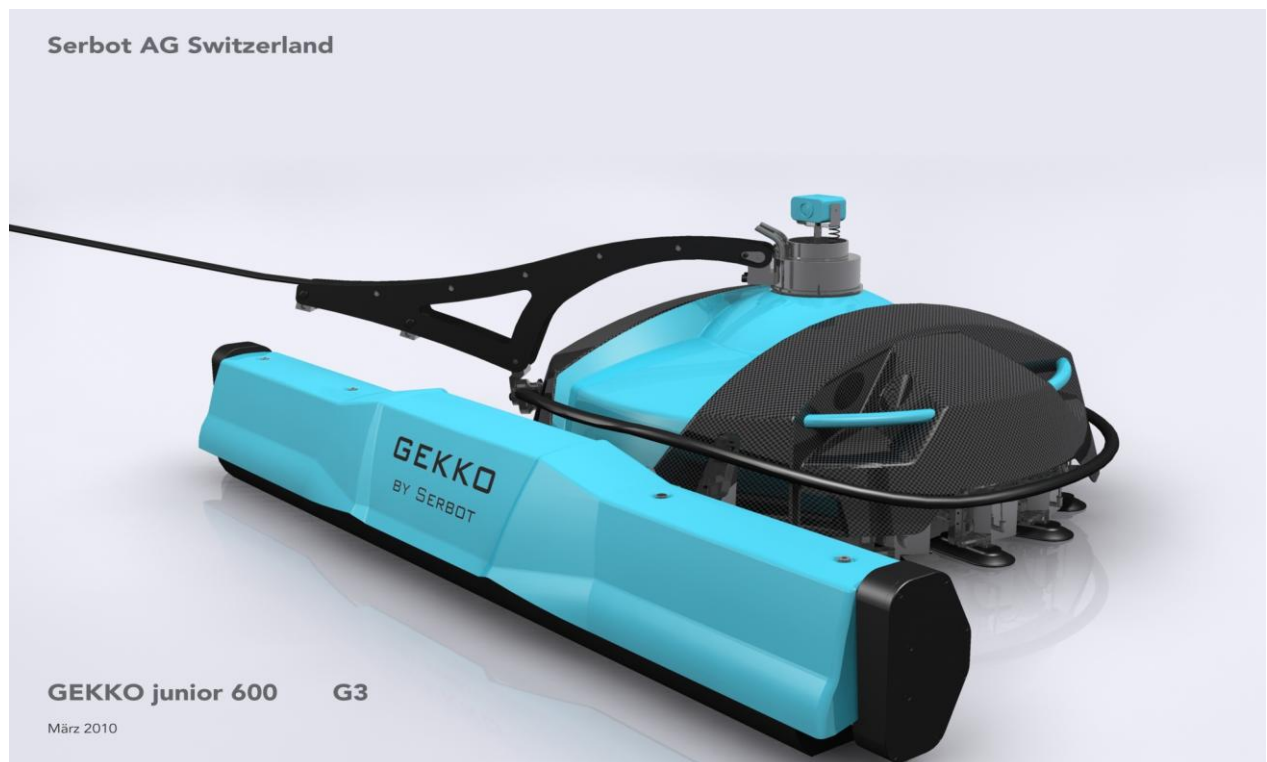


# GEKKO III Junior

Cleaning robot for smooth and inclined surfaces

Intelligent robot technologies



## Patented functional principle

GEKKO III Junior cleans smooth and disposed surfaces

### THE INTELLIGENT CLIMBING PRINCIPLE

Regardless of the inclination the **GEKKO III Junior** clings easily to the surface, identifies obstacles and window frames and surmounts them independently. 20 process-controlled feet featuring suction cups and an ingenious kinematic grant utmost safety and amazing flexibility.

### REVOLUTIONARY CLEANING PRINCIPLE

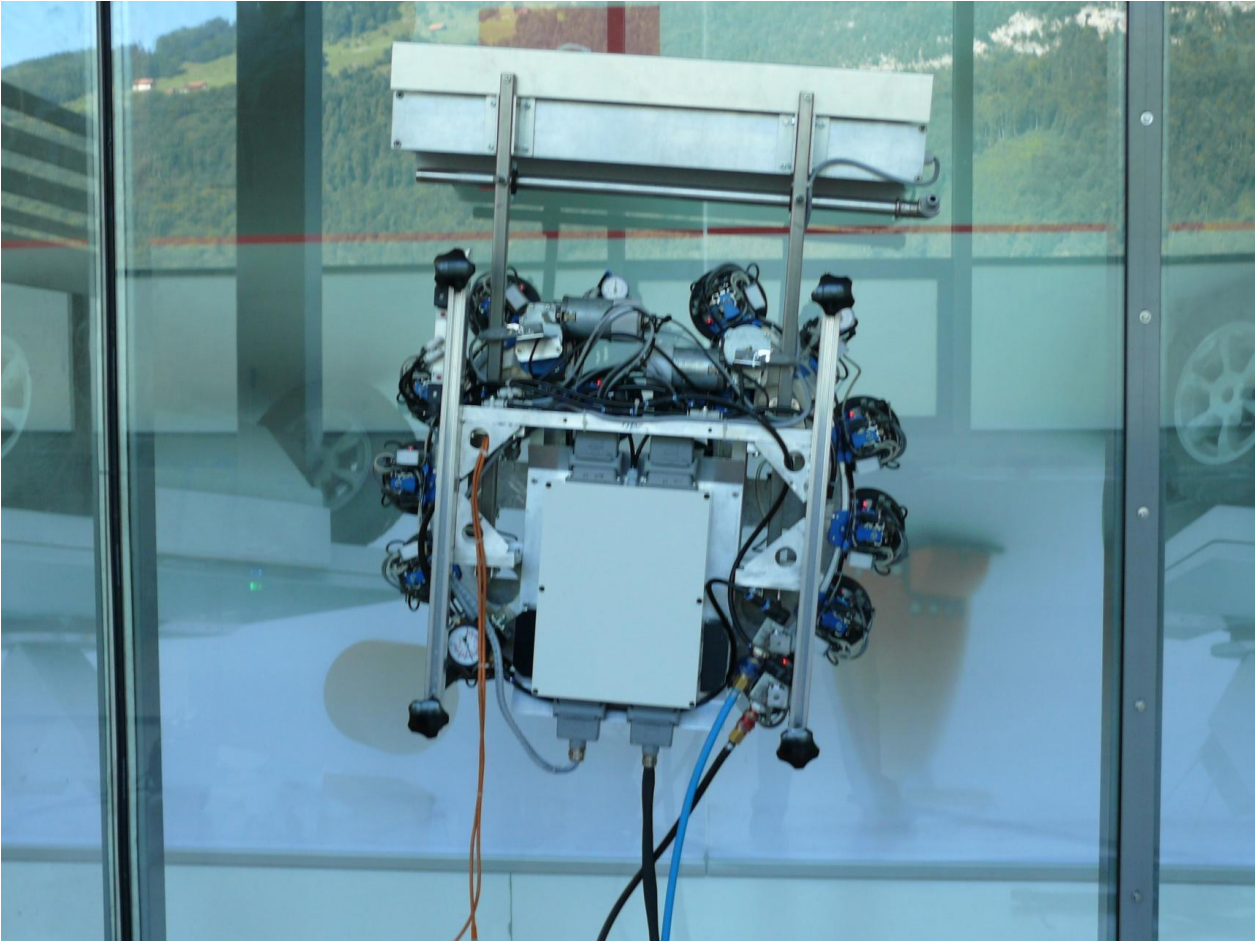
**GEKKO III Junior** is designed for interchangeable use of in- and outdoor application. The climbing robot is particularly suitable for extreme vertical heights and inclined glass facades and surmounts yet frames up to 4 cm. The cleaning process features, dependent on the application purpose, either the newly patented rotating soft brush technique, including a built in sensor controlled micro water jet injection system, which has particularly been developed for utmost demanding facade cleaning operations. This high tech innovation results in an exceptional and amazing maximum cleaning performance, due to its moistened soft bristles. Yet another revolutionary enhancement is the option of cleaning via dry ice jet streaming for ultimate expectations.

## Revolutionary facade and solar plant cleaning on the state of the art

**GEKKO III Junior** is the answer for efficient cleaning of smooth, vertical or inclined surfaces. Glass facades of buildings, photovoltaic and solar and even solar-thermo-panels, for industrial public or private usage alike, can be cleaned via the breathtaking, efficient, mobile robot.

For the cleaning of solar panels the micro water jet injection system is fed by demineralized water in order to grant spotless clean surfaces. Therefore, the **GEKKO III Junior** sustains continues high efficiency of the solar collectors.

As for facades the climbing robot cleans safely at virtually any weather condition. The seminal robot technology cleans at the amazing speed of up to 2.5 m<sup>2</sup> per minute.



## **GEKKO III Junior – Qualities**

Efficient facade cleaning due to intelligent robot technology

### **CLEANING CAPACITY**

**GEKKO III Junior** grants a stainless cleaning result of glass and frames and therefore bequeaths a spotless results.

### **SAFETY**

The **GEKKO III Junior** is able to work at wind speed that would prohibit manual cleaning for safety reasons and where ever human cleaning is not feasible.

### **SPEED**

The **GEKKO III Junior** cleans up to 150 m<sup>2</sup> surface per hour. At that the Robot is faster than any manual cleaning.

### **COSTE-EFFECTIVE**

Since the **GEKKO III Junior** may be run autonomous, or if desired so by joy stick, the robot is an unbeatable cost cutting investment.

## **Versatile fields of application**

### **WE DEVELOP A CUSTOM-TAILORED SOLUTION JUST FOR YOU**

Due to the unique seminal climbing technology of the mobile robots of SERBOT AG there is a wide range of possible usage: The robot is able to clean solar panels, faces or any areas that are difficult to access, they may be used for impregnation or for any coating of surfaces. Furthermore, the high-tech robot my even be used to take over complex installation work.

Entrust us your project. Our engineers will develop a custom-tailored solution for you!

### **CONSULTING & SERVICES**

You will get an overall perfect solution: We analyse your project, we develop the perfect solution, we set it up, we implement it including the applicable software and last but not least we train your operator on site. Regardless whether you need maintenance or enhancement of the functionality we are at your disposal all around the clock!

For further Information please visit our homepage [www.serbot.ch](http://www.serbot.ch).

## Technical Parameter

### Standard prerequisites for the usage of the GEKKO III Junior

Height of the construction (max.)	300 m	
Width of pane (min.)	750 mm	
Height of pane (min.)	750 mm	
Thickness of pane (min.)	6 mm	
Width of frame (max.)	100 mm	
Height of frame (max.)	40 mm	
Running speed (max.)	5 m/min.	
Cleaning speed	3 - 4 m/min.	
Cleaning capacity (max.)	4.5 – 6 m <sup>2</sup> /min.	
Weights	Robot	42 kg
	Cleaning system	13 kg
	Assembled	55 kg
Dimensions	720 x 620 x 475 mm (w x l x h)	
	Length incl. sensor system	800 mm
Supply	Phase	1
	Voltage	230 V
	Type	CEE 16 A
	Electrical power	1.5 kW

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Installation of the safety winch system with visible or concealed mono rail carrier

Don't hesitate - we innovate!



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