

GEKKO III Plus

Cleaning robot for smooth and inclined surfaces of vast surfaces
Intelligent robot technologies



Patented functional principle

GEKKO III Plus cleans smooth and disposed surfaces

THE INTELLIGENT CLIMBING PRINCIPLE

Regardless of the inclination the **GEKKO III Plus** clings easily to the surface, identifies obstacles and window frames and surmounts them independently. 22 process-controlled feet featuring suction cups and an intelligent kinematic grant utmost safety and amazing flexibility.

REVOLUTIONARY CLEANING PRINCIPLE

GEKKO III Plus 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. 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.

The intelligent climbing robot cleans on the state of the Art

The **GEKKO III Plus** has a cleaning capacity of up to 4 m² per hour and thus particularly suitable for efficient cleaning of vast surfaces e.g. skyscrapers.

Due to the sophisticated construction the ingenious, mobile robot is predestined for cleaning gigantic high rise building with smooth or inclined surfaces. The **GEKKO III Plus** is absolutely reliable and able to tackle even surfaces that are difficult to reach, or where no manual cleaning is feasible. Furthermore, the high-tech robot can be operated even in wind and adverse weather. Depended on the requirements of the construction the safety winch system for the **GEKKO III Plus** may be mounted with a concealed mono rail carrier.

Operators of industrial, federal or private facilities throughout the world may profit of this utmost efficient cleaning robot.

GEKKO III Plus – Qualities

Efficient facade cleaning due to intelligent robot technology

CLEANING CAPACITY

GEKKO III Plus grants a stainless cleaning result of smooth surfaces 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 Plus** cleans up to 240 m² surface per hour. Hence the Robot is faster and by far more efficient than any manual cleaning.

COSTE-EFFECTIVE

Since the **GEKKO III Plus** may be run autonomously, 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 sophisticated 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 just 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.

Technical Parameter

Standard prerequisites for the usage of the GEKKO III Plus

Height of the construction (max.)	300 m
Width of pane (min.)	900 mm
Height of pane (min.)	900 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.)	5.7 - 7.6 m ² /min.

Weights	Carriage	54 kg
	Cleaning system	19 kg
	Assembled	73 kg
	GEKKO-carriage	59 kg
Dimensions	1150 x 1345 x 475 mm (w x l x h)	
Length incl. sensor system	1,740 mm	
GEKKO- carriage	610 x 1500 x 1,300 mm (w x l x h)	
Cable drum	750 x 2300 x 1,300 mm (w x l x h)	
Supply	Phases 3 / Power supply 400 V	
	Type CEE 16 A	
	Electrical power 3.8 kW	

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

Don't hesitate - we innovate!



designed by **Niederberger-Engineering AG**
Stanserstrasse 97
6374 Buochs
Switzerland

Tel.: +41 (0) 41 612 11 01
Fax: +41 (0) 41 612 11 02
E-Mail: info@serbot.ch
www.serbot.ch