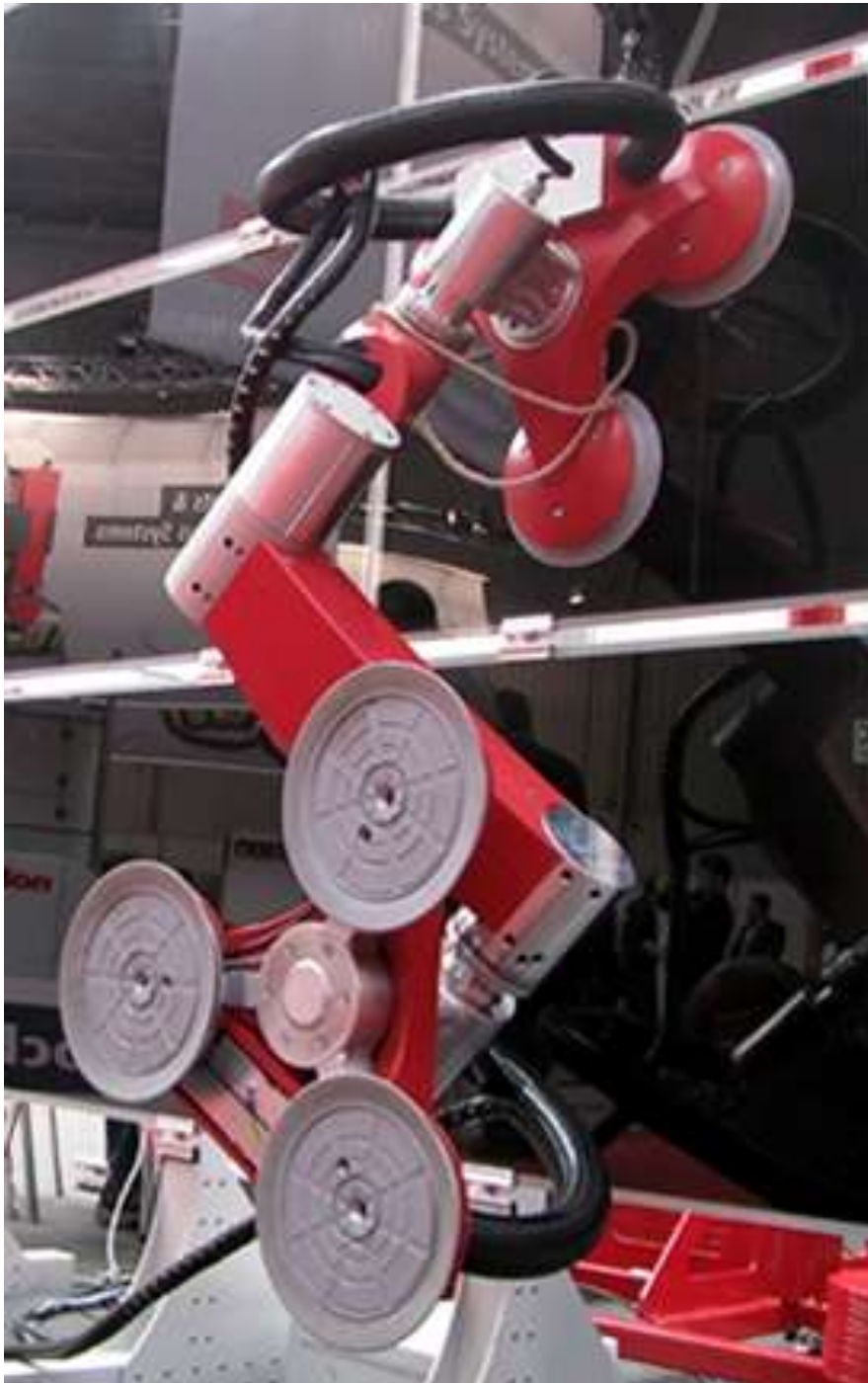


CleanAnt Junior

Cleaning robot for curved shapes on smooth surfaces

Intelligent robot technologies



PATENTED FUNCTIONAL PRINCIPLE

The **CleanAnt Junior** is particularly suitable for curved shapes on smooth surfaces



designed by
 **Niederberger-Engineering AG**

The Intelligent climbing principle

Regardless of the curved shape of the surface the **CleanAnt Junior** clings easily to the surface, identifies obstacles and window frames and surmounts them independently. 2 process-controlled feet featuring suction cups and an intelligent kinematic, grant utmost safety and an amazing flexibility.

Revolutionary cleaning principle

CleanAnt Junior is designed for interchangeable use of in- and outdoor application. Geometrical, spherical and free-form shapes, be it on concave or convex surfaces, or structured surfaces, can be efficiently cleaned by the ingenious CleanAnt Junior. 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.

The intelligent climbing robot cleans on the state of the Art

The advantages of the sophisticated engineering of the ingenious **CleanAnt Junior** are an amazing flexibility and as little weight as 30 kg.

Curved shapes of edifices are, due to its particular shape, predestined to be cleaned by the sophisticated flexible and efficient climbing robot.

The standard **CleanAnt Junior** is designed to manage up to 300 meters height on edifices.

The **CleanAnt Junior** is suitable for industrial, federal or private facilities throughout the world and grants an amazing efficient result. Moreover the robot is able to tackle even surfaces that are difficult to reach, or where no manual cleaning is feasible. Furthermore, the high-tech robot can be safely operated even in wind and adverse weather.

Take advantage of the intelligent, flexible and utmost efficient cleaning robot!



CleanAnt Junior – Qualities

Efficient facade cleaning due to intelligent robot technology

CLEANING CAPACITY

CleanAnt Junior grants a stainless cleaning result of glass and frames and therefore, bequeaths a spotless results.

SAFETY

The **CleanAnt 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 **CleanAnt Junior** cleans up to 60 m² surface per hour. Hence the Robot is faster and by far more efficient than any manual cleaning.

COSTE-EFFECTIVE

Since the **CleanAnt Junior** 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 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.



Technical Parameter

Standard prerequisites for the usage of the **CleanAnt Junior**

Height of the construction (max.)	300 m
Thickness of pane (min.)	5 mm
Width of frame (max.)	190 mm
Cleaning capacity (max.)	1 m ² /min.
Weight	30 kg
Dimensions	300 x 600 x 225 mm (w x l x h)
Supply	1 Phase
Height of frame (max.)	190 mm
	Voltage 230 V
Electrical power	4 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

25.02.2010



designed by
 **Niederberger-Engineering AG**