



# ADLATUS SR1300

Autonomous vacuum sweeping robot system



# DESIGNED TO SERVE...

## PRODUCT PRESENTATION SR1300

With the ADLATUS vacuum sweeping robot system, ADLATUS Robotics introduces a fully autonomous vacuum sweeping machine. The robotics sweeper is equipped with a service station where the battery is automatically charged. In addition, the system offers fully automatic emptying of the swept-up waste, which can be tipped into a provided container and disposed of. The fully autonomous sweeper is built on a newly developed robotics platform, ADLATUS **Trusted Robotics**. This platform supports the intelligent autonomy of the vacuum sweeping robot and offers, in addition to the highest process stability during navigation, an economical use of smart features and security in the handling of our customers' data.

The vacuum sweeping robot system was specially developed for logistical/and industrial sectors to efficiently remove dirt and litter in large halls or warehouses.

With an autonomous steering drive, the system is driven by a front wheel, which allows maximum angular rotation when steering. This allows the sweeper to rotate around its axis and be used for cleaning in confined spaces. The system can negotiate ramps with a gradient of up to 20%.

## TECHNICAL DATA

Voltage	<b>24 V</b>
Maximum installed power	<b>2,63 kw</b>
Width of central brush / cleaning width	<b>0,800 m</b>
Width of central brush + no. 1 right side brush	<b>1,050 m</b>
Width of central brush + no. 2 side brushes	<b>1,300 m</b>
Maximum cleaning capacity with 2 side brushes (theoretical)	<b>9,100 m<sup>2</sup>/h</b>
Front drive	<b>Front</b>
Max. Forward speed 1.1 km/h	<b>1,11 m/s = 4 km/h</b>
Max. rear speed Reverse speed	<b>0,03 m/s = 0,1 km/h</b>
Max. negotiable slopes	<b>20%</b>
U-Turn Minimum distance between two walls	<b>3 m</b>
Filter area (no. 1 pocket filter)	<b>5,5 m<sup>2</sup></b>
Filter area (No. 8 cartridge filter)	<b>6,4 m<sup>2</sup></b>
Dust container capacity	<b>115 l</b>
Length	<b>1,70 m</b>
Width	<b>1,01 m</b>
Height	<b>1,30 m</b>
Weight without batteries	<b>375 kg</b>

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## CUSTOMER BENEFITS



### FULL AUTONOMY WITH SERVICE STATION

The service station enables the sweeper to operate fully autonomously. It can be used to charge the robot's batteries and, if desired, to automatically dispose of the swept-up waste in a container.



### ECONOMIC EFFICIENCY

The autonomous operation of the sweeping robot system allows flexible planning of cleaning times outside working hours and minimizes the need for supervision by staff. Cleaning frequencies in maintenance cleaning can be increased flexibly without additional costs and the need of additional staff.



### INDUSTRIAL SUITABILITY

The construction of the robot system is based on high-quality materials that ensure the stability, durability and industrial suitability of the robot. The main brush and side brushes are designed to be maintenance-friendly, which ensures easy changing of the brushes. Likewise, a battery change can be carried out from the side. In addition, the system is equipped with signals and can be extended in an industrial environment with Blue Spot and rotating beacon.



### SAFETY

Both the navigation concept and the safety concept of the ADLATUS robot systems are based on the newly developed ADLATUS **Trusted Robotics** Platform. An interaction of different sensors increases stability in navigation and brings collision avoidance to performance level D, which corresponds to the international standard IEC 63327.



### USER-FRIENDLY

The vacuum sweeping robot system is quickly set up through an intuitive, user-friendly interface. The desired cleaning areas are saved on a floorplan and stored on the system. The cleaning programmes are started via a fully automated service station, on the unit itself or via a mobile terminal that connects to the robot system.



### PRIVACY BY DESIGN & PRIVACY BY DEFAULT ...

... this is the focus under which the robot systems are developed at ADLATUS. In addition to the safety concept in navigation, the **Trusted Robotics** platform includes a data protection concept that does not record any personalized or environment-related data. Smart data collected by the ADLATUS vacuum sweeping robot system is purely machine-related data that is used for preventive maintenance and provides added value to the operator.

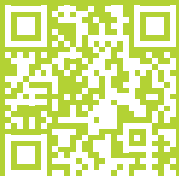


### CONNECTIVITY

The ADLATUS **SR1300** has a wide range of options for individual communication with technical systems. It can be integrated into the building infrastructure and enter into dialogue with fire alarm or alarm systems, operate automatic doors and gates or, for example, transmit the fully automatically generated documentation of the cleaning carried out as a protocol by e-mail.



## ABOUT ADLATUS



Ulm is not only known for the highest church tower in the world and as the birthplace of Albert Einstein, but also for its innovations and clever minds, like those at ADLATUS Robotics GmbH.

As a manufacturer of service robots, ADLATUS Robotics has developed in recent years from a start-up to a young and dynamic company with over 30 employees. At the Ulm location, ADLATUS Robotics develops, produces and sells service robots and offers complete solutions including consulting, commissioning, training and services. With a lot of passion, perseverance and team spirit, ADLATUS Robotics has established itself as German innovation leader for service robots in the professional cleaning industry and now has robot systems in use in various sectors, such as industry, logistical centers, public areas, clinics and other applications.

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### Internationales Vertriebs- und Servicenetz

