



# INTELLIGENT & EFFICIENT CLEANING

## ADLATUS **CR700C + S700-2**

Cleaning robot system with roller brush technology  
and service station



DESIGNED TO SERVE...



# MISSION

## DESIGNED TO SERVE ...

This is the mission of ADLATUS Robotics GmbH.

Digitalisation and globalisation are changing facility management and require new solutions. ADLATUS Robotics supports this change with innovative, autonomous service robots for professional use.

The name 'Adlatus' comes from Latin and means 'helper' - which is exactly what ADLATUS wants to offer its customers: an autonomous helper that takes on tasks independently. Service stations further increase the autonomy of the robots.

Our assistants make life and work easier by providing services reliably and independently.

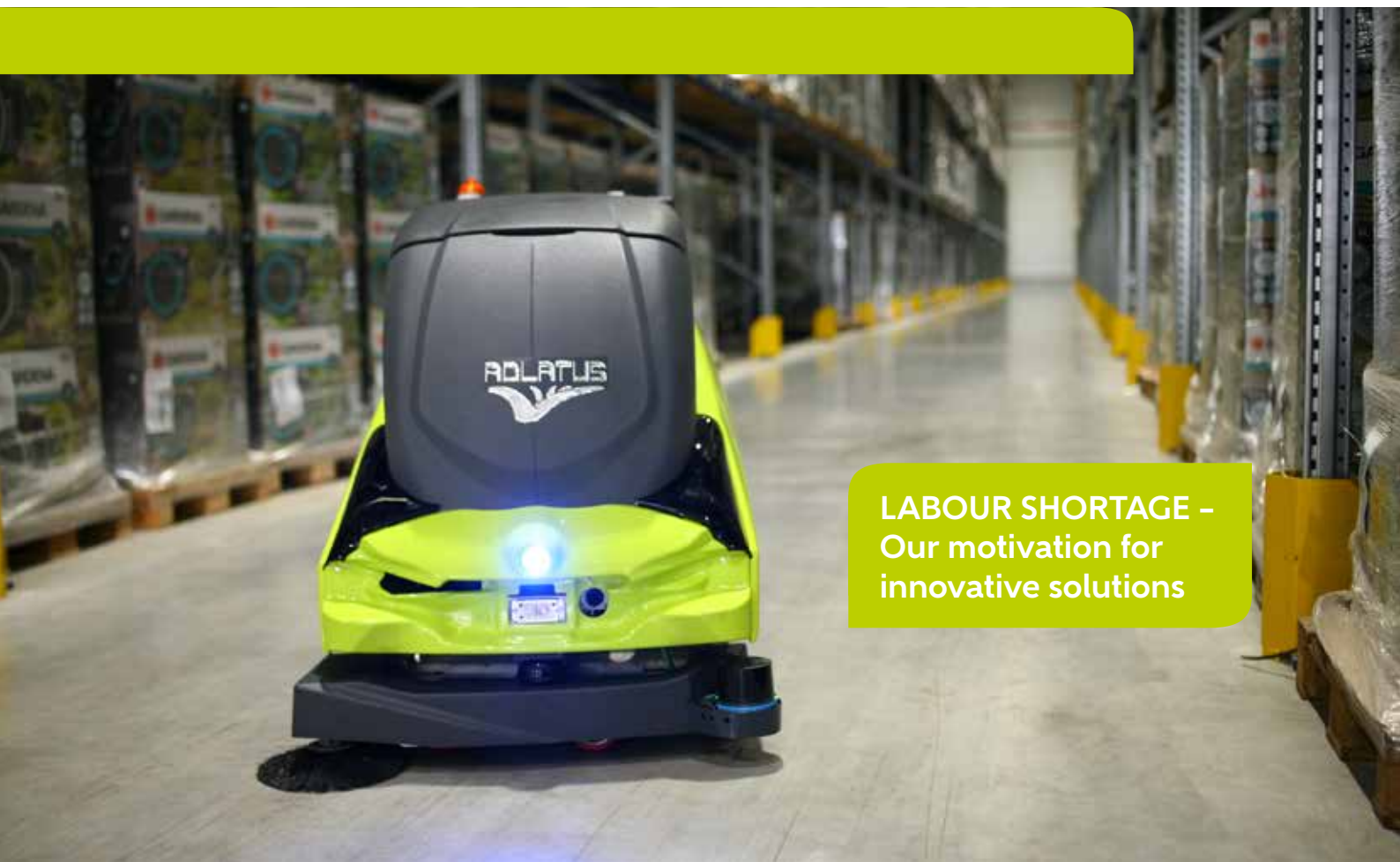
ADLATUS develops, produces and sells service robots and offers complete solutions, including consulting, commissioning, training and service.

# INNOVATION, EXPERTISE & SAFETY

– these are the strengths of ADLATUS in the development of fully autonomous cleaning robot systems.

In view of the shortage of skilled labour, the demand for process automation is growing. Dust and dirt impair process reliability, and regular maintenance cleaning is becoming increasingly difficult.

These challenges have driven ADLATUS from the very beginning to develop innovative robotic systems for professional floor cleaning with passion and team spirit. With the ADLATUS Trusted Robotics platform, the company focuses on full autonomy, high safety performance as well as data protection and data security for its users.



**LABOUR SHORTAGE -**  
Our motivation for  
innovative solutions

# EFFICIENT, FLEXIBLE & ECONOMICAL



## ECONOMIC EFFICIENCY

Cleaning frequencies can be increased at no extra cost and processes can be efficiently adapted and integrated. Employees can be deployed for more productive tasks.



## FLEXIBILITY

Cleaning times can be flexibly adapted to traffic frequencies, even outside working hours. Regular, efficient maintenance cleaning improves cleaning quality and increases occupational safety.



## SIMPLE OPERATION

The user-friendly interface allows cleaning staff to start the robotic cleaning system easily - directly on the touch display or using a mobile device. Alternatively, the robot can start cleaning programmes autonomously on a time-controlled basis.



## High level of safety

Intelligent sensors ensure stable navigation and collision avoidance in accordance with the **IEC 63327** safety standard, increasing the autonomy of ADLATUS robots and ensuring safety even in crowded environments.



## DATA PROTECTION GDPR\* COMPLIANT

ADLATUS focuses on 'Privacy by Design': Data protection is prioritised as early as the product development stage. No personal or environment-related data is collected.

\*General Data Protection Regulation



## CONNECTIVITY

The robotic cleaning system can be integrated into the building infrastructure or IoT systems. It communicates with fire detection and alarm systems, controls doors and gates and automatically sends cleaning reports by email.



## TRANSPARENCY THROUGH DOCUMENTATION

Fully automated, certified and data protection-compliant logging takes place after each use. This makes it easier to provide proof of services for invoicing, performance records and audits - including details of cleaned areas, time spent and more.

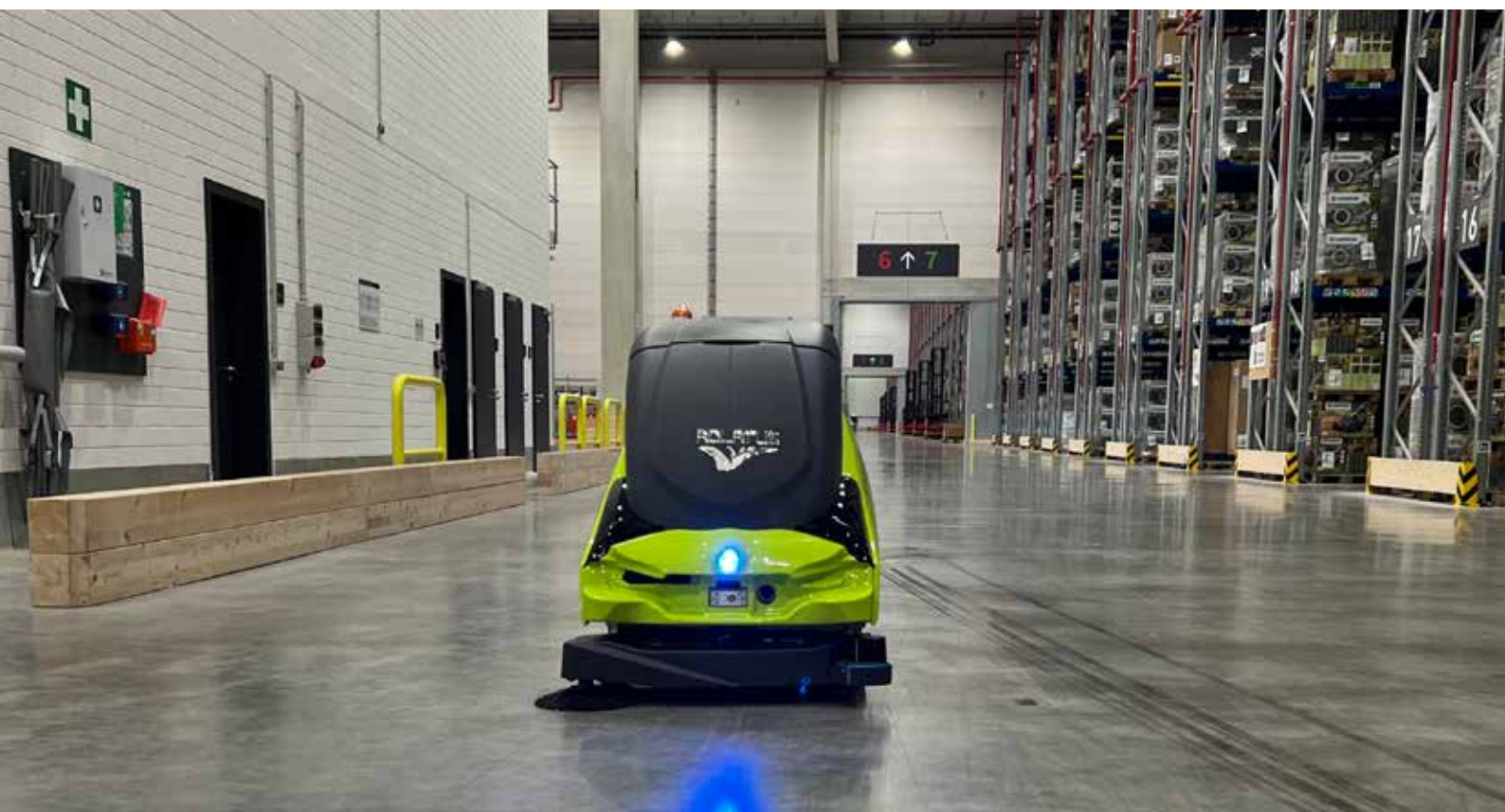
# AUTONOMOUS CLEANING ROBOT

The **ADLATUS CR700C scrubber-dryer system with roller brushes** will efficiently clean your floors by simultaneously picking up coarse dirt and cleaning the floor in a single work step. The roller movement transports loose dirt and particles into a collection container that needs to be emptied regularly. This eliminates the need for time-consuming pre-cleaning and saves valuable floor cleaning time. The additional side brush also ensures thorough cleaning along the edges.

Roller brushes can be made from different materials, with the choice of material varying depending on the type of floor. Roller brush technology delivers outstanding cleaning results, particularly on structured, uneven floors or surfaces with joints and cracks where dirt can get stuck.

#### **FIELDS OF APPLICATION:**

Industry and production, logistics, public areas and facilities, car parks, shopping centres and other applications



# TECHNOLOGY IN FOCUS





#### AUTONOMOUS OR MANUAL OPERATION

The robotic cleaning system works fully automatically, but also offers a manual mode. For spontaneous cleaning, the CR700C can be conveniently steered to the desired location using a mobile device.



#### AUTONOMOUS OPERATION

The cleaning robots work completely autonomously, without Wi-Fi or a constant internet connection. This minimises IT security risks, enabling use in safety-critical environments such as prototype construction, public buildings and other sensitive areas.



#### FULL AUTONOMY WITH SERVICE STATION

The fully automatic service station maximises the autonomy of the cleaning system and reduces the need for personnel. It charges the battery, starts cleaning programmes and automatically takes care of fresh water filling and dirty water disposal.



#### USER INTERFACE

The system is operated via an intuitive touch display and can be used by any cleaning personnel without much prior knowledge. The multilingual user interface enables cleaning programmes to be started using self-explanatory symbols. After a short briefing, anyone can operate the system. The cleaning programmes start fully automatically at set times every day of the week and can be started manually by the cleaning staff if required.



#### CLEANING CLOSE TO THE EDGE

An additional side-mounted brush sweeps dirt toward to the roller brushes, which transports it into the collection container - for thorough cleaning close to the edge.



#### INDUSTRIAL SUITABILITY

The cleaning robot is CE-certified, suitable for industrial use and impresses with its robust, quality-orientated design. High-quality components such as stainless steel elements and maintenance-free brushless motors ensure durability and reliability.



#### NAVIGATION WITH ITS OWN SOFTWARE PLATFORM

ADLATUS cleaning robots use their own software in conjunction with powerful sensor technology for stable navigation and collision avoidance in accordance with **EN IEC 63327**. In cooperation with sensor manufacturers, a sensor system consisting of 2D and 3D lidar sensors ensures reliable obstacle detection and recognises obstacles without recording personal data or saving details of the surroundings. Only coordinates are recorded.

# PRODUCT DETAILS

|                                     |   |
|-------------------------------------|---|
| <b>Robot control</b>                | Fully autonomous systematic operation   |
| <b>3D sensors for 360° coverage</b> | 2D and 3D laser sensors, acceleration sensors, cliff detection sensors              |
| <b>User interface</b>               | Access via on-board touch display and smartphone or tablet                          |
| <b>Service station (optional)</b>   | Fully automated battery charging, supply of fresh water and drainage of waste water |
| <b>Connectivity</b>                 | Access to operator information, control and fully automatic documentation via WiFi  |

## CLEANING:

|                                       |  |
|---------------------------------------|--|
| <b>Cleaning width / pick-up width</b> | 700 mm / 750 mm + side brush             |
| <b>Brush speed</b>                    | max. 550 Umdr./min                       |
| <b>Brush type</b>                     | Roller brush                             |
| <b>Rollers</b>                        | 2 pieces, 180 mm diameter, 656 mm length |

## VOLUME:

|                            |   |
|----------------------------|---|
| <b>Fresh water tank</b>    | 60 l With fully automatic dosing during cleaning operation and refilling at the service station |
| <b>Dirty water tank</b>    | 55 l With fully automatic emptying at the service station                                       |
| <b>Detergent container</b> | 2 l With fully automatic dosing during cleaning operation                                       |

## PERFORMANCE:

|   |   |
|---|---|
| <b>Cleaning time</b>                      | 4 to 6 hours per battery charge (depending on battery capacity 120 Ah / 180 Ah) depending on battery option and cleaning intensity<br>Battery type: Lithium Ion |
| <b>Battery charging time</b>              | 1.5 to 2.5 h depending on battery option (depending on battery capacity) with speed charging  |
| <b>Cleaning speed</b>                     | up to 4 km/h, individually adjustable   |
| <b>Cleaning performance (theoretical)</b> | 2.750 m <sup>2</sup> /h depending on the environment and cleaning intensity   |
| <b>Application example</b>                | With an average operation of approx. 4 hours, the CR700C with roller brush can theoretically clean approx. 10.000 m <sup>2</sup> per battery charge             |



**DIMENSION CR700C**

|               |             |
|---------------|-------------|
| <b>Weight</b> | max. 260 kg |
| <b>Width</b>  | 827 mm      |
| <b>Length</b> | 1.267 mm    |
| <b>Height</b> | 1.067 mm    |



# AUTONOMOUS SERVICESTATION



The S700-2 service station enables fully automatic charging of the batteries, draining of dirty waste and refilling of fresh water, thereby increasing the degree of automation of the robotic cleaning system. With a stored schedule, the cleaning programs are started fully autonomously at any time and day of the week.

|                                     |  |
|-------------------------------------|--|
| <b>Water connection</b>             | The connection is secured with an aquastop valve, which the service station control unit can use to block the water supply. Water connection 3/4" min. 3 to 6 bar          |
| <b>Power connection</b>             | 230 V socket   |
| <b>Fully automatic service mode</b> | The fresh water tank is automatically filled and the waste water tank emptied. The batteries are also charged in the service station.                                      |
| <b>Status - Signal line</b>         | The service station display shows whether the battery is charging, fresh water filling and waste water emptying are active and whether the robot is ready for further use. |

## DIMENSION S700-2

|               |               |
|---------------|---------------|
| <b>Weight</b> | approx. 70 kg |
| <b>Width</b>  | 980 mm        |
| <b>Length</b> | 345 mm        |
| <b>Height</b> | 911 mm        |

## STATUS OF THE CHARGING FUNCTIONS

|                    |                 |
|--------------------|-----------------|
| <b>Loading</b>     | 1.5 - 2.5 hours |
| <b>Clean Water</b> | < 10 minutes    |
| <b>Waste Water</b> | < 5 minutes     |



# STEP BY STEP TO SUCCESS

- 1. INSTALLATION PREPARATION**

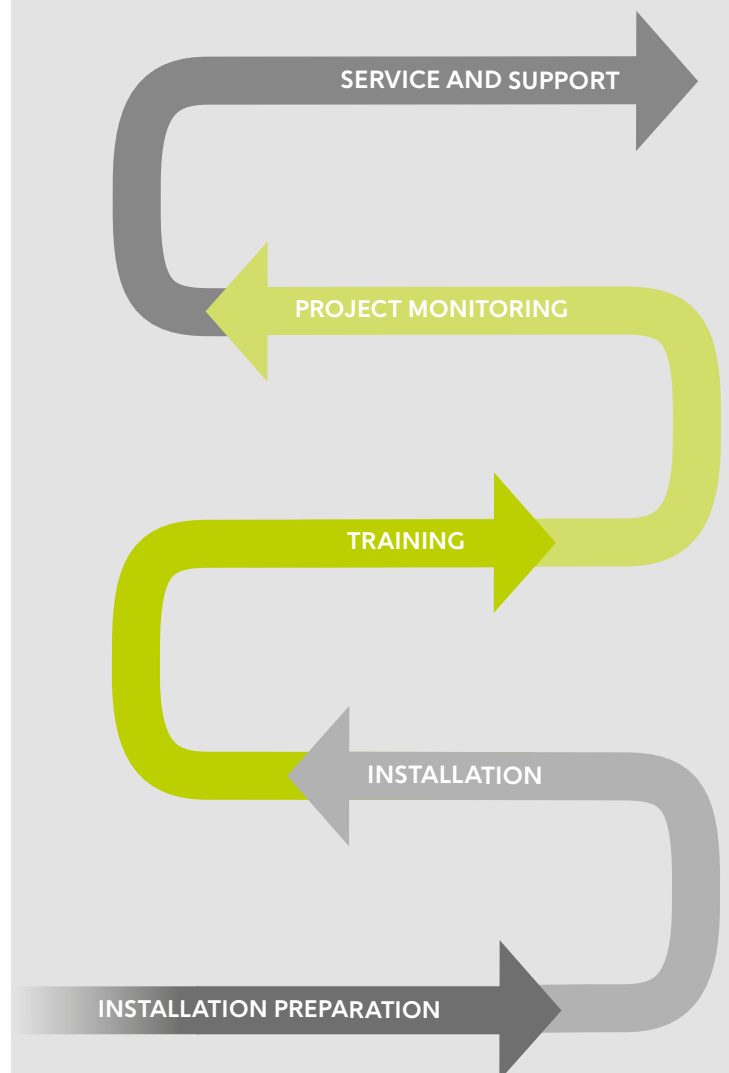
Success begins with careful preparation: our experts assess the property to be cleaned, check the feasibility of the customer's requirements, define the setup of the cleaning robot based on floor conditions and the amount of dirt, define cleaning areas and programmes and communicate project managers.
- 2. INSTALLATION**

Experienced ADLATUS specialists accompany all phases of commissioning, from the first application to ongoing optimisation. The aim is to increase the efficiency and productivity of maintenance cleaning.
- 3. TRAINING AND EDUCATION**

ADLATUS offers comprehensive training for the operation and maintenance of the cleaning robots, customised to the customer's specific requirements.
- 4. PROJECT MONITORING**

After commissioning, we monitor the project, analyse log data and optimise the system in close cooperation to adapt efficiency to the customer's needs.
- 5. SERVICE AND SUPPORT**

With an international service network, we offer on-site service and are available via hotline and online support. Our service and maintenance contracts are tailored to the needs of our customers.



**FROM INSTALLATION  
PREPARATION TO  
PROJECT MANAGEMENT**



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