



# REFERENCE BOOK

Cleaning robot system  
CR700







APPLICATION AREA:  
**STORAGE HALL**  
**PRODUCTION HALL**

# KARWENDEL WERKE HUBER GMBH & CO. KG BUCHLOE, DE

**INDUSTRY SECTOR:** groceries

**SPECIFIC CHALLENGES:**  
asphalt floor in the warehouse

**ENVIRONMENT:** logistics / warehouse

**CLEANING AREA:**  
approx. 4.000 qm<sup>2</sup>

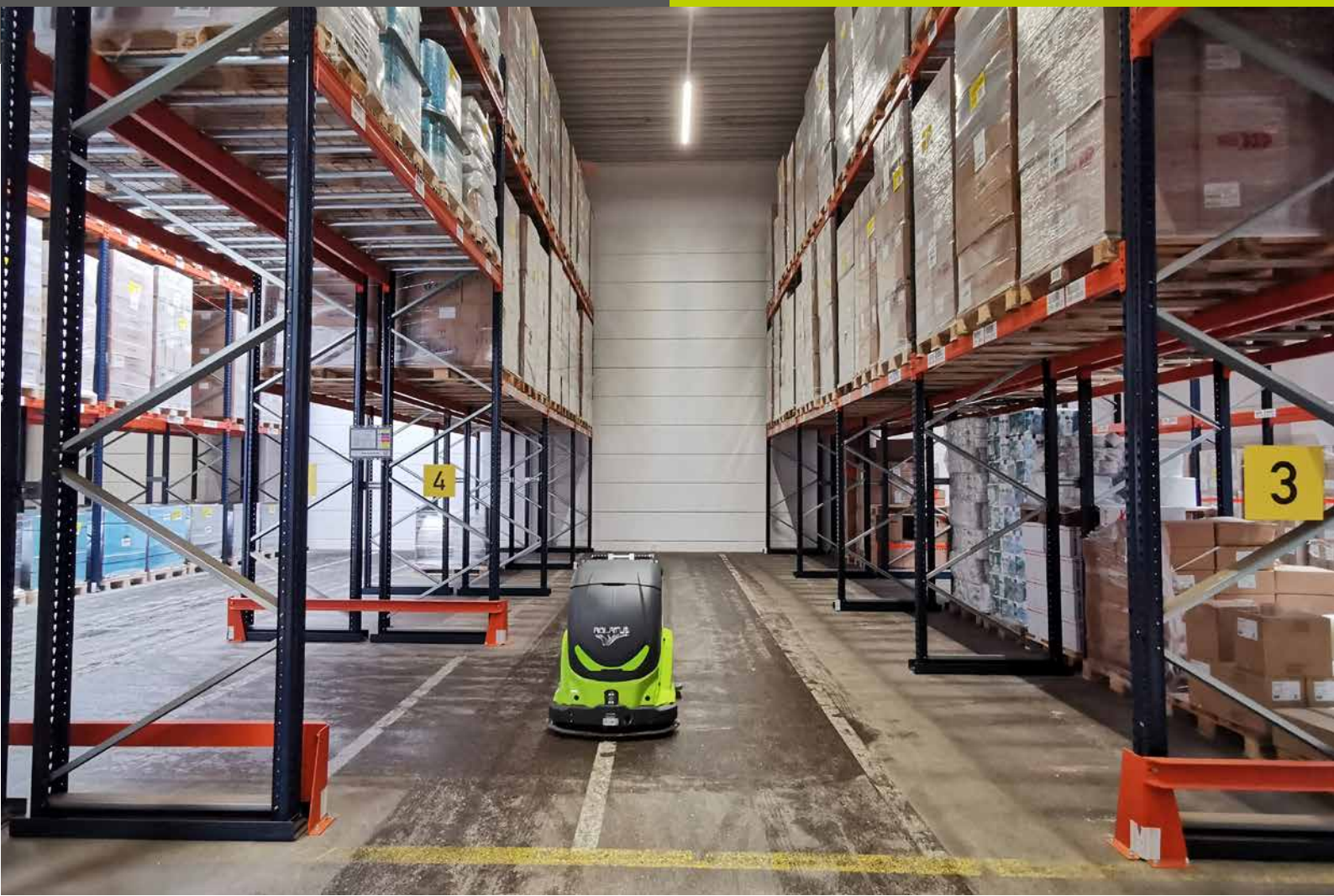
**CLEANING FREQUENCY:** daily from 10:00 p.m. a  
hall of 4 (1,000 square meters)

**SERVICE STATION:** yes

**RETURN ON INVEST:** approx. 1 year

## PROJECT:

The task at Karwendel Werke Huber was the consistent cleaning of the outside hall. The packaging for food production is stored in this hall. Here it is imperative to avoid bringing dirt or dust into production, as this is an absolute no-go. In addition, the use of a cleaning robot promised a better allocation of resources in order to be able to familiarize staff with other tasks.





**HERR  
STEFAN  
SPANNENBERGER**

Strategic warehouse management

” The use of the CR700 convinced us because we get absolute transparency of the cleaning intervals, which is absolutely important for an audit. In addition, the device is not prone to failure, cleans perfectly and works at times when no staff has to be present.

**CUSTOMER VALUE:**

We can distribute our resources better, have transparency about the cleaning intervals and use the flexible operating times.

We no longer have to worry about cleaning and the hall is always extremely clean.





# TEVA BIOTECH GMBH ULM, DE

**INDUSTRY SECTOR:** Pharmaceutical industry

**SPECIFIC CHALLENGES:**

Test for use in the clean room area

**ENVIRONMENT:** storage area (black area)

**CLEANING AREA:** 1,000m<sup>2</sup>

**SERVICE STATION:** yes

**NICKNAME:**

is currently determined in a survey among employees

**PROJECT:**

The core team presented by a consisting of employees from technology, automation and quality assurance, took care of the implementation. As part of the project, numerous technical details as well as EHS issues had to be dealt with must be considered. The cleaning robot should be at Teva Biotech GmbH can be used in the storage area as a test environment in order to determine whether an application in the production area would be possible.





## FRAU JUDITH HÖFER

Lead Hygienic  
Production Support

” By using the cleaning robot, we want to make cleaning the warehouse more efficient and improve work safety. Another point is that we want to improve the cleaning documentation in the future by generating reports on the cleaning processes.

## CUSTOMER VALUE:

On the one hand, the robot is intended to facilitate the work of the cleaning staff.

So far, they have cleaned the warehouse with cleaning machines, which is very time-consuming due to the large area. Another advantage is that the floor can now be cleaned outside of regular working hours. This also improves work safety, as there is no longer any danger of slipping through wet floors for employees.



# SPORT OKAY GMBH INNSBRUCK, AT

**INDUSTRY SECTOR:** online-trade with sports goods

**SPECIFIC CHALLENGES:** Ongoing adaptation of the storage or cleaning area

**ENVIRONMENT:** Storage space in the robot warehouse and in the working level

**CLEANING AREA:**  
2,600 m<sup>2</sup>

**REINIGUNGSFREQUENZ:** 1x pro Woche

**SERVICE STATION:** yes

**NICKNAME:** Froggi

## PROJECT:

SportOkay.com is headquartered in Innsbruck (Tyrol/Austria) and inspires customers across Europe with low prices, fast shipping, top brands and 3D product worlds.

In 2018, SportOkay.com built a new, state-of-the-art logistics center, which also included the CR700 cleaning robot. Thanks to the automated cleaning, which at the same time offers cost savings and makes work easier, the company does not need any additional staff. With the additional option of manual control, a high degree of flexibility is offered.







**HERR  
KONRAD  
PLANKENSTEINER**  
CEO by SportOkay.com

**CUSTOMER VALUE:**

We see our benefit when using the CR700 in the automation of the cleaning of our logistics center.

” Everything went smoothly when setting up the cleaning robot and the service station. We are particularly impressed by the excellent cleaning quality and the drive automation of the CR700 cleaning robot.





# PÖTTINGER LANDTECHNIK GMBH

## GRIESKIRCHEN, AT

**INDUSTRY SECTOR:** mechanical engineering

**ENVIRONMENT:** production hall

**CLEANING AREA:**  
approx. 2,500 m<sup>2</sup>

**CLEANING FREQUENCY:** daily

**SERVICE STATION:** yes

**RETURN ON INVEST:** approx. 2 years

### PROJECT:

In St. Georgen, near Grieskirchen, Pöttinger Landtechnik GmbH has implemented a new, additional production site for the manufacture of large swaths and round balers. In our first expansion step, the production area was 6,000 m<sup>2</sup>, which will, however, be expanded in the next few years. At this location, the routes in the production hall are cleaned autonomously by the cleaning robot outside of production hours (6:00 p.m. to 6:00 a.m.). It was important to us to find a cleaning robot that is able to do the cleaning without a lot of personnel.





**HERR  
CHRISTIAN  
PFEIFFER**

Team leader industrial engineering

**CUSTOMER VALUE:**

We see our benefit when using the ADLATUS cleaning robot in the autonomous cleaning of the driveways in our new production hall.

” Great device, after a few adjustments to the environment and our processes, it runs without any problems.





## DEUTZ AG ULM, DE

**INDUSTRY SECTOR:** Engine manufacturer

**SPECIFIC CHALLENGES:**

Heavy soiling due to oil, wood, shavings and packaging residues

**ENVIRONMENT:** Main production routes, routes to the small parts warehouse

**CLEANING AREA:**

Concrete floor, ca.3,000 m<sup>2</sup>

**CLEANING FREQUENCY:** Mo.-Sa. / once a day

**SERVICE STATION:** yes

**NICKNAME:** Cleaningrobi

**RETURN ON INVEST:** < 1 year

### PROJECT:

DEUTZ AG is one of the world's leading manufacturers of innovative drive systems. The company's core competencies lie in the development, production, sales, and service of diesel, gas, and electrified drive systems for professional applications. To relieve of the cleaning staff, the main traffic routes in the factory are to be cleaned autonomously. The major challenge here is on the one hand the high degree of contamination by oil, wood oil, wood, shavings, etc. and on the other hand the large area of approx. 3,000 m<sup>2</sup>, which posed a great challenge to the cleaning staff.





**HERR  
VITTORIO  
PECORARO**  
Assembly planner



” With the CR700 cleaning robot, we want to improve cleanliness and occupational safety in our factory and bring it up to the state of the art.

### CUSTOMER VALUE:

Autonomous cleaning can be done outside working hours. This allows us to flexibly adjust cleaning times and perform cleaning work also be carried out at night. This means that the production processes can be maintained, and both forklift trucks and people on the move are not affected by the cleaning work. The service station enables the robot can empty itself, supply itself with fresh water and charge the battery independently. Human intervention is not necessary and employees can be deployed for other activities. The robot works autonomously and does not require constant by humans.



# HARGASSNER GES MBH WENG, AT

**INDUSTRY SECTOR:** Manufacturer of biomass heating

**SPECIFIC CHALLENGES:**

Driverless transport system provided by the customer in use

**ENVIRONMENT:** Production and assembly hall with industrial floor coating

**CLEANING AREA:** 4,500 m<sup>2</sup>

**CLEANING FREQUENCY:** once a day

**SERVICE STATION:** yes

**RETURN ON INVEST:** ca. 1,5 Jahre

**PROJECT:**

Due to the very good order situation and the resulting increased internal traffic, the degree of soiling of our hall floors has risen continuously in recent months. As a result, the sensors in our driverless transport vehicles became soiled faster and faster due to the dust that was thrown up and, ultimately, the sensors had to be cleaned almost every day.

In order to improve the supply of our production/assembly as well as the general safety through the driverless transport system, a solution for the cleaning of our floors was needed.





Due to Hargassner's affinity for automation, the cleaning process should be of course autonomous.

### CUSTOMER VALUE:

The use of the CR700 cleaning robot has significantly improved the cleanliness of the hall floors. The cleaning is done automatically in the background, as if by magic, without any great effort. This has particularly positive effects on our automation. Errors due to dirty sensors have been almost completely eliminated.

### HERR THOMAS HINTERLEITNER

Project management for production & intralogistics

” Hygiene and cleanliness are becoming increasingly important in the field of automation. Dirty sensors result in losses in process and personal safety. By cleaning the internal traffic routes on a daily basis, the cleaning robot indirectly contributes to ensuring the timely supply of materials to the production and assembly lines using our automated logistics systems.





# MEDI-G GMBH MESSKIRCH, DE

**INDUSTRY SECTOR:** Minimally invasive surgery (MIS)

**SPECIFIC CHALLENGES:**  
Oily floor with light chips

**ENVIRONMENT:** Production hall

**CLEANING AREA:**  
approx. 2.700 m<sup>2</sup>

**CLEANING FREQUENCY:** one time per day whole cleaning area

**SERVICE STATION:** Mounting on the wall in a separate room

**NICKNAME:** Wilde Hilde

## PROJECT:

We have built a new company building and thus changed our company location. Here, there is a cleaning area of approx. 2.700 m<sup>2</sup>. Since we are always using the latest technology in the direction of Industry 4.0, a cleaning robot was worth an investment for us. When we got the demonstration of the ADLATUS CR700, we were immediately enthusiastic. The robot scored with an excellent cleaning result and easy operation. We were prepared for the handling of the ADALATUS CR700 with a great training and a super briefing how to use ADLATUS CR700.







## CUSTOMER VALUE:

- Saving of cleaning time
- Economic efficiency
- Documentation of cleaning steps
- Flexible use

## HERR MIKE BOCKSTART

Technical Support

” The robot makes our daily cleaning process easier, so we always score points with a presentably clean production. The operation and flexibility of the ADLATUS CR700 cannot be surpassed. Thanks to the extended training in programming the CR700, we are able to adapt and constantly optimise our cleaning programmes flexibly and without great effort. Cleaning with the CR700 is easy and no comparison to manual cleaning of the production hall.





# J. WAGNER GMBH MARKDORF, DE

**INDUSTRY SECTOR:** Mechanical Engineering

**SPECIFIC CHALLENGES:**

Building areas that merge into one another

**ENVIRONMENT:** Lager und Montageflächen

**CLEANING AREA:**

6.000 m<sup>2</sup>

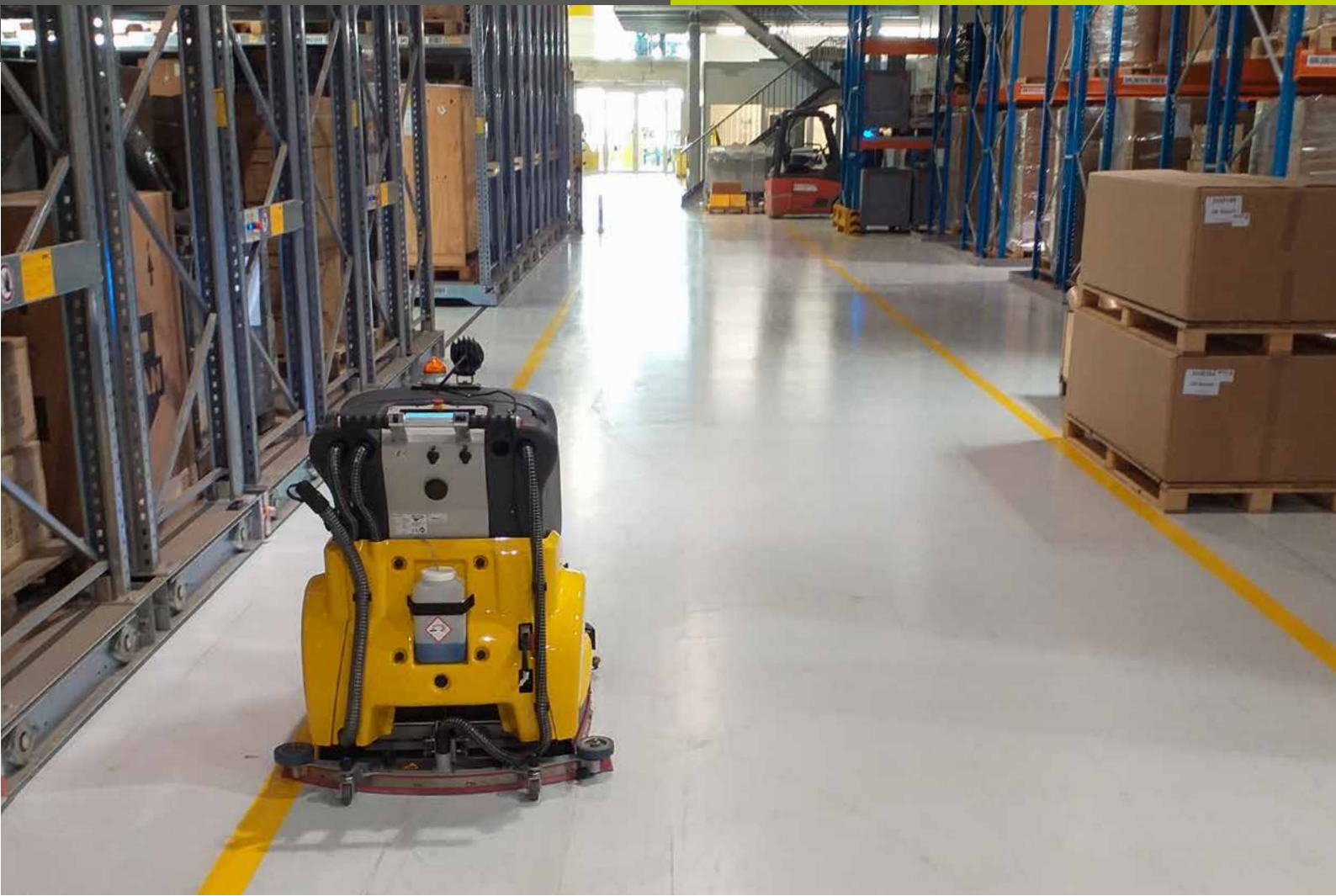
**CLEANING FREQUENCY:** daily

**SERVICE STATION:** yes

**COLOUR OF THE CR700:** yellow

## PROJECT:

J. Wagner GmbH is one of the world's leading manufacturers of coating technology for the finishing of surfaces with powder and wet lacquers, paints and other liquid materials. The product portfolio is divided into two dimensions to meet the specific requirements of customers. The Decorative Finishing division develops equipment specifically tailored to the requirements of do-it-yourselfers; the Industrial Solutions division manufactures products and systems for industrial surface coating for a wide range of industrial sectors.





Due to different requirements, the logistics and assembly of both divisions take place in different, interconnected hall areas. Until now, cleaning was a very time-consuming process carried out by the company's own logistics staff with the help of various cleaning devices. Both the cleaning of the floor and the cleaning/maintenance of the corresponding equipment took up a lot of time, which was then lacking in the actual area of responsibility of logistics.

### CUSTOMER VALUE:

As the CR700 cleans completely autonomously and cleans itself, it can easily clean the storage and assembly areas outside business hours. This offers enormous time savings in keeping the areas clean. And the daily routine is not disturbed.

### HERR MARCEL WUNN

Warehouse manager

” With the CR700, we want to make the cleaning of warehouses and assembly areas more efficient and time-saving. Cleaning such large areas disrupts daily operations enormously. It is simply more fun to work in a tidy and clean environment. And when this happens almost completely automatically, it is of course even better.







APPLICATION AREA:  
**SPORTS HALL**



# ORANGECAMPUS GMBH NEU-ULM, DE

**INDUSTRY SECTOR:**

professionell sports

**SPECIFIC CHALLENGES:**

Special requirements of the sports parquet floor in terms of cleaning agents: As much as necessary, but as little as possible, and therefore specifically adapted to the floor.

**ENVIRONMENT:**

OrangeCampus Neu-Ulm – Europe's most modern junior basketball training center

**CLEANING AREA:**

Main Court (1,534 m<sup>2</sup>), Uzin Utz Court and Allianz Court (jeweils 727 m<sup>2</sup>)

**CLEANING FREQUENCY:**

every 48 hours

**SERVICE STATION:** yes

**NICKNAME:** Cristiano





## PROJECT:

The peculiarity of the large surfaces combined with the special requirements of a parquet flooring in the halls were the initial trigger for fundamental considerations regarding cleaning independent of personnel resources and the associated high costs.

In other words, a solution was sought for the OrangeCampus in terms of the greatest possible economic efficiency, independent of working hours at night or on public holidays, as well as the most sustainable implementation possible.

In addition, the high quality standards with regard to optimal sporting conditions - in the case of basketball, first and foremost consistent and reliable adhesion conditions - played a major role.

Together with ADLATUS Robotics, an appropriate solution was implemented for the first time in this form in conjunction with the OrangeCampus for a sports floor.

An autonomous cleaning robot, which takes over the cleaning of the halls independently and in the long term, will considerably simplify management processes and make them more efficient.



## HERR MARKO HAMANN

Responsible person  
the building services

” By using the cleaning robot, all cleaning processes can be designed more efficiently and with a specific view to the special needs of a facility like the OrangeCampus.

## CUSTOMER VALUE:

Fundamental increase in the efficiency of all human resources, as corresponding personnel are not permanently tied down. In addition, the cleaning frequency can be increased flexibly while costs remain the same. Also, the dual-use concept of the robot, which also permits manual cleaning, also speaks for the use of the device at the OrangeCampus. Particularly during the transition phase from manual to semi-manual to fully automated cleaning in various areas of the OrangeCampus, this concept supports the entire process in an ideal way.



## BZZ BETRIEB ZOFINGEN, CH

**INDUSTRY SECTOR:** educational centre

**SPECIFIC CHALLENGES:**  
soft hall floor, cleaning of handball resin residues

**ENVIRONMENT:**  
3-way gym

**CLEANING AREA:**  
1,385 m<sup>2</sup>

**CLEANING FREQUENCY:** daily, at least 1x

**SERVICE STATION:** yes

### PROJECT:

Our CR700 starts its job late at night, when everyone is out of the gym. He cleans the hall floors every day and is finished with his task by five o'clock in the morning at the latest. The main goal is to remove resin residues that have arisen after handball training or a game. In addition, regular cleaning can prevent large accumulations of dust.







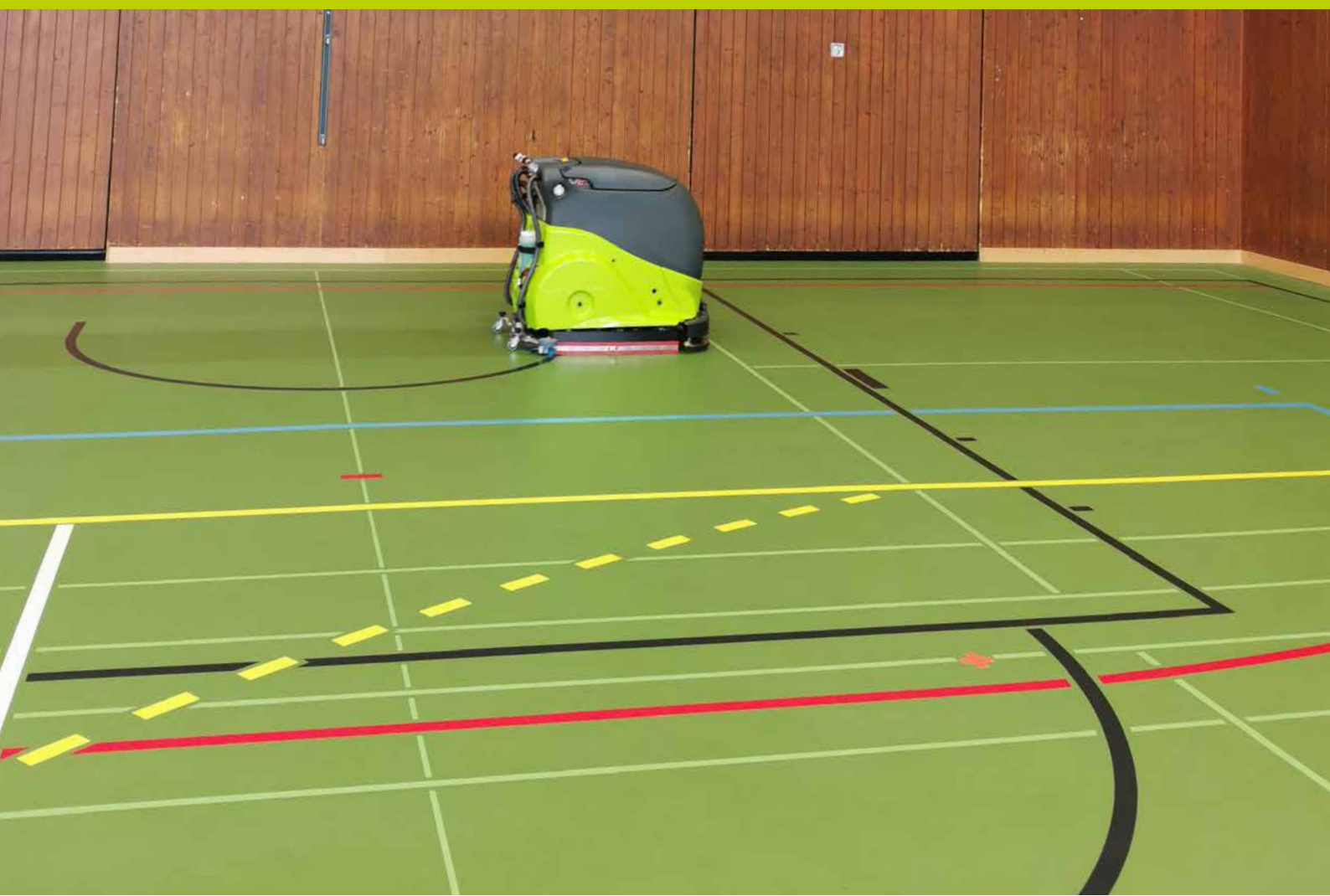
## CUSTOMER VALUE:

Since the halls are filled with students for up to 15 hours during the day, a particularly great benefit is that the robot drives autonomously at night without any assistance from staff. So in the next early morning, the hall is freshly cleaned for the following students.

## HERR LUDER DAVID

Caretaker

” The CR700 robot has a good cleaning performance and is very user-friendly. By programming the time, we can let the cleaning robot drive alone in the dark at night.





# RAUMSCHIESSANLAGE DER JÄGERSCHAFT GRAFSCHAFT BENTHEIM GGMBH, DE

**INDUSTRY SECTOR:** hunting shooting training

**SPECIFIC CHALLENGES:**  
daily wet cleaning of the shooting lanes

**ENVIRONMENT:** Indoor shooting hall with rebound proof soft sports floor

**CLEANING AREA:** 700 m<sup>2</sup>

**CLEANING FREQUENCY:** daily

**SERVICE STATION:** yes

**NICKNAME:** Adlatus

## PROJECT:

The requirement is the daily wet cleaning of the shooting lanes prescribed by the authorities because of the propellant powder residues in the area of the shooters that precipitate during firing.

Wet cleaning phlegmatizes the precipitated propellant powder in the cleaning water and absolutely reliably prevents the risk of spontaneous combustion. The waste water must be filtered to remove the suspended solids. The filter residues and residues in the dirty water tank must be





**HERR  
MICHAEL  
WENDEROTH**  
managing director

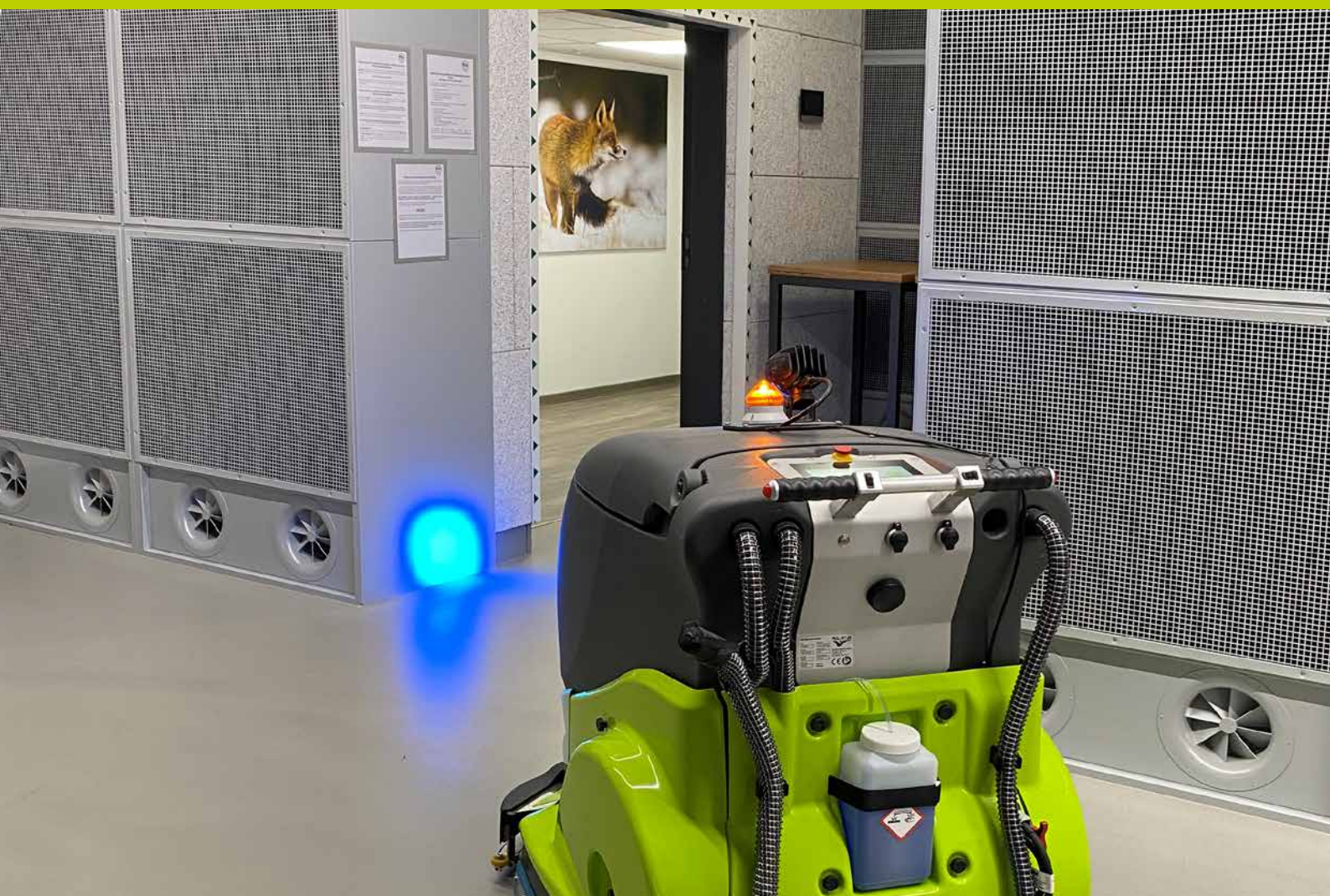


removed from the adlatus in the phlegmatized state, dried in a safe place and subsequently disposed of harmlessly.

### CUSTOMER VALUE:

Simple operation and reliable daily cleaning in a favorable cost-benefit ratio compared to cleaning the lanes via a service provider with high time and personnel input. In addition, the possibility to run different cleaning programs also time-controlled.

” The space shooting range of the Jägerschaft Grafschaft Bentheim is currently the most modern and largest of its kind in northern Germany. With approximately 2,000 practicing hunters and official shooters, we bear a great responsibility for the safety of all users of our indoor shooting range. Adlatus helps us meet this responsibility with its outstanding technology and yet simple operation, especially in the area of cleaning.







APPLICATION AREA  
PUBLIC AREA:  
**PARKING GARAGE**  
**SHOPPING MALL**



# ULMER PARKBETRIEBS-GMBH ULM, DE

**INDUSTRY SECTOR:** Municipal, public facilities (parking garage)

**SPECIFIC CHALLENGES:** Pedestrian traffic, overhanging cars, columns

**ENVIRONMENT:** parking garage

**CLEANING AREA:** 2,120 m<sup>2</sup>

**REINIGUNGSFREQUENZ:** 2x pro Tag

**SERVICE STATION:** yes

**NICKNAME:** Cordula Grün

**RETURN ON INVEST:** < 1 year

## PROJECT:

Ulmer Parkbetriebe is a subsidiary of the city of Ulm. The company owns six parking garages that are open around the clock.

The big challenges for the cleaning robot at the parking garage at the town hall in the „Neue Mitte“ are, in addition to the narrow path width, a highly frequented public traffic and the bypassing of the support columns.





## HERR THOMAS SOMMER

Cleaning officer



### CUSTOMER VALUE:

On the one hand, the robot is intended to facilitate the work of the cleaning staff.

So far, they have cleaned the warehouse with cleaning machines, which is very time-consuming due to the large area. Another advantage is that the floor can now be cleaned outside of regular working hours. This also improves work safety, as there is no longer any danger of slipping through wet floors for employees.

” If it were up to me, I would like to have a cleaning robot as a colleague in each of our parking garages.





## ULMER PARKBETRIEBS-GMBH ULM, DE

### INDUSTRY SECTOR:

municipal, public institution

### SPECIFIC CHALLENGES:

Pedestrian traffic, columns

### ENVIRONMENT:

shopping mall

**CLEANING AREA:** 500 m<sup>2</sup>

**CLEANING FREQUENCY:** twice a day

### PROJECT:

The Ulmer Parkbetriebe are a subsidiary of the city of Ulm. In addition to operating a parking garage, they also clean the Sedelhofpassage.

The passage leads from the main train station directly into the city centre and is very frequented by passers-by and customers of the integrated shops. Especially during the rush hours or at weekends and vacation periods, the arcade is frequented by a large number of people.

One challenge for the cleaning robot are deep milled holes in the floor, which are used to guide visually impaired people.







## HERR THOMAS SOMMER

Cleaning officer



### CUSTOMER VALUE:

Due to the high frequency of public traffic, the passage has to be cleaned several times a day, depending on the weather.

The ADLATUS CR700 allows the cleaning frequency to be flexibly increased and adapted to different conditions, regardless of the availability of personnel.

” In addition to a very good cleaning result, the ADLATUS CR700 also inspires the passers-by in the mall and it is a pleasure to see the reactions.







APPLICATION AREA:  
**OFFICE BUILDING**



# PHOENIX CONTACT BAD PYRMONT, DE

## INDUSTRY SECTOR:

Industry electrical engineering

## SPECIFIC CHALLENGES:

In overlapping building areas with main entrance and side entrances. Connection to elevators and doors so that they can be used independently

**ENVIRONMENT:** Administration building and main routes in production

## CLEANING AREA:

Granite double floor, net area 1,700m<sup>2</sup>

**SERVICE STATION:** yes

**RETURN ON INVEST:** approx. 2 years

## PROJECT:

As an innovative company in the field of electrical engineering, in which we offer our customers not only components, but also solutions, we are pioneers with our own building management system interested in looking at and changing processes holistically. A large floor area with double floor slabs made of granite is located on the first floor of two buildings built directly next to each other.

These areas are used for receptions, exhibitions and events over and over. Accordingly, cleaning has to be carried out more often and adapted





**FRAU  
CHRISTINA SÜSS**  
Facility Management

to the different conditions. Already in 2019, in cooperation with ADLATUS Robotics, we have allowed the CR700 cleaning robot to travel fully autonomously to other floors with one of our elevators. Our building management system makes this possible and as a facility manager, the autonomous cleaning system is worthwhile as soon as it cleans more square meters than with a manual machine. So here our claim is to let the CR700 communicate with elevators and doors, so that the main routes and areas are reached and cleaned by the self-propelled cleaning robot. Also cleaning on demand, e.g. in case of snow or rain, when the entrances show increased dirt, is directly passed on to the CR700 as special cleaning via our building management system, which monitors the weather data and doors, and thus the cleaning schedule of the entrances can also be triggered depending on the weather.

” The autonomous cleaning system with the service station supports us so well in combination with our building management system that the CR700 not only drives autonomously, but is also on the road more demand-oriented and optimized by the building management system!

### **CUSTOMER VALUE:**

In combination with our own building management system, we are able to use the cleaning robot from ADLATUS Robotics in such a targeted and efficient way that it offers us added value and this does not only refer to normal maintenance cleaning!





## ADLATUS Robotics GmbH

Nicolaus-Otto-Str. 4  
89079 Ulm  
Germany

+49 731 964 278-0

[info@adlatus-robotics.com](mailto:info@adlatus-robotics.com)  
[adlatus-robotics.com](http://adlatus-robotics.com)

International sales and service network

