



ADLATUS LR200

Autonomous logisticrobot system



MISSION

Designed to serve

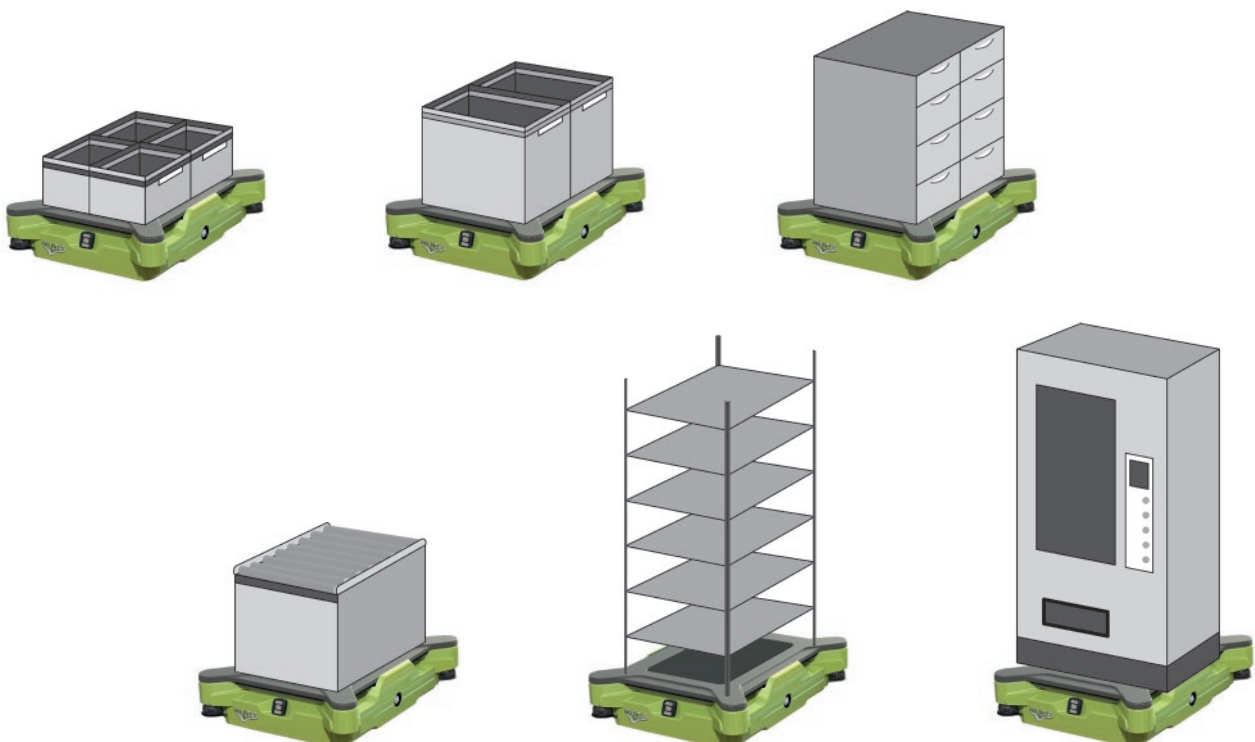
This is the mission of ADLATUS Robotics GmbH.

In addition to digitalization, networking and artificial intelligence, the shortage of skilled workers is also a big buzzword and a trend that the logistics industry is having to deal with the expected complexity in the future. Flexibility is particularly important in the logistics sector, and night shifts and weekend services are a „must“ if logistics challenges are to be met efficiently. ADLATUS Robotics GmbH would like to counteract this trend and support the logistics industry and other industries with its autonomous service robots.

Adlatus comes from Latin (ad latus = to put aside) and means the helper. This is also the philosophy of the company ... to provide service robots to the industry, which take over tasks independently and compensate the deficit of the lack of skilled workers.

LOGOISTIC ROBOT 200

With the **logistics robot LR200**, ADLATUS has developed a logistics platform for efficiently designing intralogistics processes in a wide variety of industries. The autonomous logistics platform has a modular design and is designed as a direct platform for transporting boxes, cases or industrial add-on modules. This means that it can be used flexibly for different types of transport and can independently take on several transport and logistics tasks in your company.



CUSTOMER BENEFITS

The profitability, sustainability and flexibility motivates our customers to use service robots in their companies.



Economics

The reduction of personnel expenses and the independence from night, weekend and holiday surcharges as well as the lack of skilled workers ensure fast amortization and high cost-effectiveness. Avoiding bottlenecks in the material flow increases productivity in the plant.



Sustainability

Think in the long term - act responsibly in a spirit of partnership with employees and resources. Autonomous service robots are health-promoting and relieve employees of physically strenuous work. The modular design of the LR200 makes it flexible and suitable for various tasks.



Transparency

Fully automated logging facilitates documentation, proof of service for billing purposes or auditing.



Security

The use of autonomous Service Robots can reduce the risk of security issues and even espionage and terrorist attacks by minimizing the possible need for frequently changing and possible unchecked external staff. Increased safety in the working environment through reliable navigation in complex environments, obstacles and passenger traffic.



Simplicity

The usability of the LR200 is simple, intuitive and can be done by everyone after a short briefing. The start takes place via mobile devices.



Industry 4.0

In automated production facilities, the Service Robots can be integrated into processes and communicate with other automated systems.



Marketing & Identity

The use of service robots distinguishes our customers as innovative companies in their industries.

PROPERTIES OF THE LR200



Modular design

The platform has a modular structure and can be used with various industrial attachments. Depending on the application, the platform can approach different stations, supply them and carry out repetitive daily tasks independently. The platform is suitable for a wide variety of transport systems or collaborative robotics structures. ADLATUS supplies the platform and the superstructures are designed by partners.



Navigation

The advanced navigation concept of the **ADLATUS LR200** is based on the knowledge of the CR700 cleaning robot already used in the field and enables reliable, flexible navigation even in complex environments. The powerful sensor technology and the intelligent processing of the sensor data allow reliable detection of objects, obstacles or persons that are very difficult to detect. The logistics platform, like the cleaning robot, is based on a stored building plan on which various transport routes are defined.



User Interface

The **ADLATUS LR200** can be started very easily thanks to the intuitive and user-friendly user interface. The start takes place via mobile devices such as tablets or smartphones, alternative also time-controlled or via a higher-level control system.



Inductive charging station

If the battery power is exhausted, the logistics platform automatically goes to the charging station. Charging is inductive and can be mounted on the floor to save space. This allows charging stations to be placed at several points in the building and selective charging to be carried out in „station operation“. This ensures continuous operation and use of the **ADLATUS LR200** during operating hours.



Connectivity

The **ADLATUS LR200** has many possibilities for communication with operators, infrastructure and in the age of the Internet of Things, also with objects in its environment. This means that he can communicate with his operators even when they are not within reach and, for example, send them the fully automated documentation of the activities carried out. The robot can also be requested by the operator via a tablet or smartphone in order to carry out spontaneous transports from A to B. The robot can also be operated by the user via a smartphone.

DIMENSION OF THE LR200

Weight	95 kg
Width	835 mm
Length	1050 mm
Height	260 mm

DIMENSIONS OF POSSIBLE SUPERSTRUCTURES

Nominal usable length	800 mm
Nominal usable width	600 mm
Maximum effective length	1000 mm
Maximum effective width	800 mm



TECHNICAL INFORMATION

Vehicle payload	200 kg
Ambient temperature	+5°C bis +50°C (humidity: 10-95% non-condensing)
Degree of protecting	IP20
Chassis	innovative chassis, thus safe overcoming of obstacles up to 15mm height as well as sleepers and gaps up to 20mm
Laser	Optical 360° protection through two safety laser scanners
Battery charging station	contactless charging at inductive charging station

PERFORMANCE

Operation time	approximately 10h/battery charge depending on battery option
Operating distance	approximately 15km/battery charge
Battery loading time	Complete charging time 6-8 hours, Intermediate charging possible during operation due to inductive charging
Speed	forward 1 m/s (adjustable) / Reverse 0,5 m/s



Intralogística y Robots de Paletizado

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