



Mobile Robot Underload transport (AMR) **arculee S**

Load capacity: 1,000 kg / Driving speed: 1.6 m/s (loaded).

Mobile Robot Underload transport (AMR) arculee S

The smart transport solution to boost your logistics.

Our compact and maneuverable autonomous mobile robot arculee S is the optimal solution for automated transports in the area. Whether on special transport tables or directly on the backpack – the arculee S excels particularly in underload transport, when it moves a wide variety of load carriers quickly and safely from point A to point B.

It navigates within a defined area and orients itself to the position and alignment of a load carrier when picking it up. An innovative charging concept with lithium-ion technology and automatic intermediate charging ensures process-optimised availability.

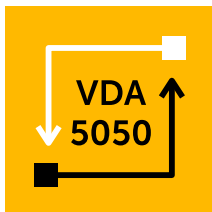
Whether on its own or in cooperation with manual and automated solutions, the arculee S offers various application solutions: as a stand-alone solution in the customer's process, as an integrated system connected via the Jungheinrich Logistics Interface or connected via the standardised VDA 5050 interface in the customer's overall system.



No worries. No compromise.

With the Jungheinrich Li-ion Guarantee Plus, we give you a long-term performance promise of up to 8 years on our high-quality lithium-ion batteries, so you can completely concentrate on your tasks without worrying.

* In accordance with our warranty terms – see website for details.



VDA 5050 compatibility

Jungheinrich mobile robots are VDA 5050 compatible and have a standardised interface for communication with the control system. This allows the mobile robots to be used with manufacturer-independent control systems.

Your advantages at a glance:

- Versatile transport solution for all industries.
- Extremely small physical footprint.
- 360° safety sensor technology for safe operations in man-machine environment.
- Autonomous detection of table position and orientation.
- High user comfort due to different operating concepts.

Jungheinrich arculee S

for maximum customer benefit.



Efficiency

Maximum performance with our most efficient autonomous mobile robot.

The efficiency booster for your automation: The conversion to under-load transport processes can lead to an increase in productivity of up to 30%, while at the same time you benefit from reliability and complete traceability in automated transport processes.

High availability:

- Automatic intermediate loading function for economical 24/7 operations.
- Maximum endurance thanks to process-optimised charging times.

Easy scalability:

- A fast and flexible way to extend your fleet.
- Problem-free integration of additional vehicles into existing systems.

Compact design:

- Remarkably small physical and virtual footprint in its class.
- Safe selection of appropriate protective fields depending on loading status.



Safety

Best conditions for safe working.

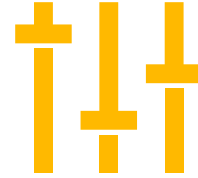
The autonomous mobile robot arculee S navigates safely and quickly through predefined areas and offers maximum safety in the collaborative human-machine environment thanks to its integrated 360° safety concept.

Maximum process reliability:

- High process stability through the automatic detection function and reaction to manually provided tables.

360° safety sensor technology:

- A sophisticated 360° safety concept for monitoring the overall contour ensures safe operation in the man-machine environment.
- Continuous system analysis and optimisation possible during operation.



Individuality

An autonomous mobile robot, as individual as your business.

The versatile helper arculee S is the perfect addition to optimize your internal transport processes. In daily use, it impresses with its high level of user-friendliness and a multitude of intelligent additional functions.

Wide range of applications:

- Table transport: Transport of various customised load carriers or racks on the transport table with autonomous recognition of the table position and adjustment of the approach route.
- Pallet transport: Transport of different pallets using backpacks as well as individually designed backpacks for project-specific applications.

Flexible system integration:

- Easy system integration thanks to standardized VDA 5050 interface.
- Suitable for mixed operation with other mobile robots.

Overview

The right solution for your applications.

Table transport

Technical requirements for load carriers and loads	Table dimensions (L x W x H)	1,300 x 1,100 x 378 mm	
	Underload height x width	300 x 980 mm	
	Max. loading heights (on the table) for load weight	880 kg: 1,400 mm	300 kg: 2,400 mm
Technical Data	Travel speed	1.6 m/s (loaded)	2.5 m/s (unloaded)
	Capacity (of which payload)	1,000 kg (incl. table) 880 kg	
	Travel direction	Bidirectional	

Pallet transport

Technical requirements for load carriers and loads	Load carrier	Euro pallet 1,200 x 800 mm (EN 13698-1), other project-specific on request	
	Max. load heights with load weight	930 kg: 1,200 mm	300 kg: 2,100 mm
Technical Data	Travel speed	1.6 m/s (loaded)	2.5 m/s (unloaded)
	Capacity	920 kg	
	Travel direction	Bidirectional	

The German production facilities in Norderstedt, Moosburg, Landsberg and Kaltenkirchen are certified.

ISO 9001
ISO 14001

Jungheinrich Flurförderzeuge entsprechen den europäischen Sicherheitsanforderungen.



 **JUNGHEINRICH**