



# Mobile robot underload transport (AMR) arculee S

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

 **JUNGHEINRICH**

# 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.

### **Your advantages at a glance:**

- Versatile transport solution for all industries.
- Extremely small physical footprint.
- 360° safety scanner 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.

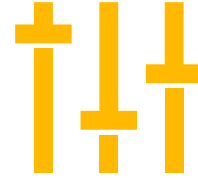
The autonomous mobile robot arculee S navigates safely and quickly through predefined areas and offers maximum safety in the collaborative human-machine environment thanks to its integrated 360° safety concept.

#### Maximum process reliability:

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

#### Sophisticated safety sensor technology:

- A 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	

Zertifiziert sind die deutschen Produktionswerke in Norderstedt, Moosburg und Landsberg.

ISO 9001  
ISO 14001

Jungheinrich Flurförderzeuge entsprechen den europäischen Sicherheitsanforderungen.



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