



# Mobile Robot Underload transport (AMR) arculee M

Load capacity: 1,300 kg / Driving speed: 1.6 m/s (loaded).

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## Maximum performance for automated pallet transport.

The compact and manoeuvrable Autonomous Mobile Robot arculee M is the ideal choice for automated pallet transport, e.g. for connecting warehouses or supplying production. The arculee M reaches a high load capacity of 1,300 kg with outstanding stability and optimal utilisation of space. The various backpack and station options allow it to transport load carriers of different dimensions and orientations.

Equipped with 360° safety sensor technology and a reliable load detection and monitoring, the arculee M enables a seamless collaboration between man and machine. Autonomous functions such as marker-free navigation and obstacle avoidance ensure flexibility and robustness in any application. As the arculee M is equipped with high-performance lithium-ion technology, it can be quickly recharged and is immediately ready for operation again. It's therefore a simple way to boost efficiency in many industries and environments.

The arculee M is suitable for many applications: as an integrated system with intelligent fleet management, connected via the Jungheinrich Logistics Interface or through 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:

- Flexible underload transport solution for loads up to 1,300 kg at a load height of 2.1 m.
- Compact design within the rotation radius of a Euro pallet for optimal utilisation of space and manoeuvrability.
- Standardised end-to-end solutions for all commonly used pallets and lattice boxes.
- 360° safety sensors and load monitoring for safe operation in the man-machine environment.
- Intelligent safety for personnel and transport, German TÜV certified.
- Simple process and system integration as part of the Jungheinrich solution portfolio.

# Jungheinrich arculee M

## provides maximum customer benefit.



### Efficiency

Maximum performance with the efficient Autonomous Mobile Robot.

Using arculee M to automate transport processes is a quick way to achieve efficiency while simultaneously increasing reliability and gaining full traceability of the material flow.

#### Best-in-class transport performance:

- Impressive dynamics, even with high payloads and load heights.
- Optimised route management with smart fleet management.

#### Compact design:

- Remarkably small physical footprint in its class.
- Minimum space requirements due to rotation around its own axis.

#### High availability:

- Automatic intermediate charging function for economical 24/7 operations.
- Process-optimised charging times for maximum endurance.



### Safety

Best preconditions for working safely.

The arculee M Autonomous Mobile Robot quickly and reliably navigates its predefined areas and offers maximum safety in environments where both personnel and machinery operate.

#### 360° safety sensor technology:

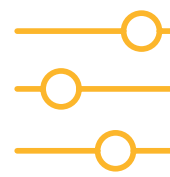
- A sophisticated 360° safety concept that monitors the entire contour enables safe operation in the man-machine environment.

#### Safe load handling:

- Intelligent load detection and position monitoring ensure safe transport.

#### Increased autonomous functions:

- Combination of contour-based and marker-based navigation suitable for any application.
- Increased autonomy and flexibility with obstacle avoidance (optional).



### Flexibility

An Autonomous Mobile Robot that's tailored to your business.

arculee M is a versatile assistant, the perfect addition to optimise your internal transport processes. In the daily use the arculee M convinces with high usability and adaptability.

#### Many possible applications:

- Transporting the most commonly used load carriers (Euro pallets, GMA pallets etc.) by using standardised backpacks and handover stations.
- Connection between high-bay warehouse and production.
- Provision of load units on handover stations at an ergonomic working height.

#### Simple scalability:

- A quick and flexible way to expand your fleet.
- Seamless integration of other trucks into existing systems.

#### Flexible system integration:

- Flexible system integration thanks to Jungheinrich Logistics Interface and standardised VDA 5050 interface.
- Suitable for mixed operation with other mobile robots.

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

ISO 9001  
ISO 14001

Jungheinrich trucks  
conform to the European  
Safety Requirements.



 **JUNGHEINRICH**