

# Telelift UniVan



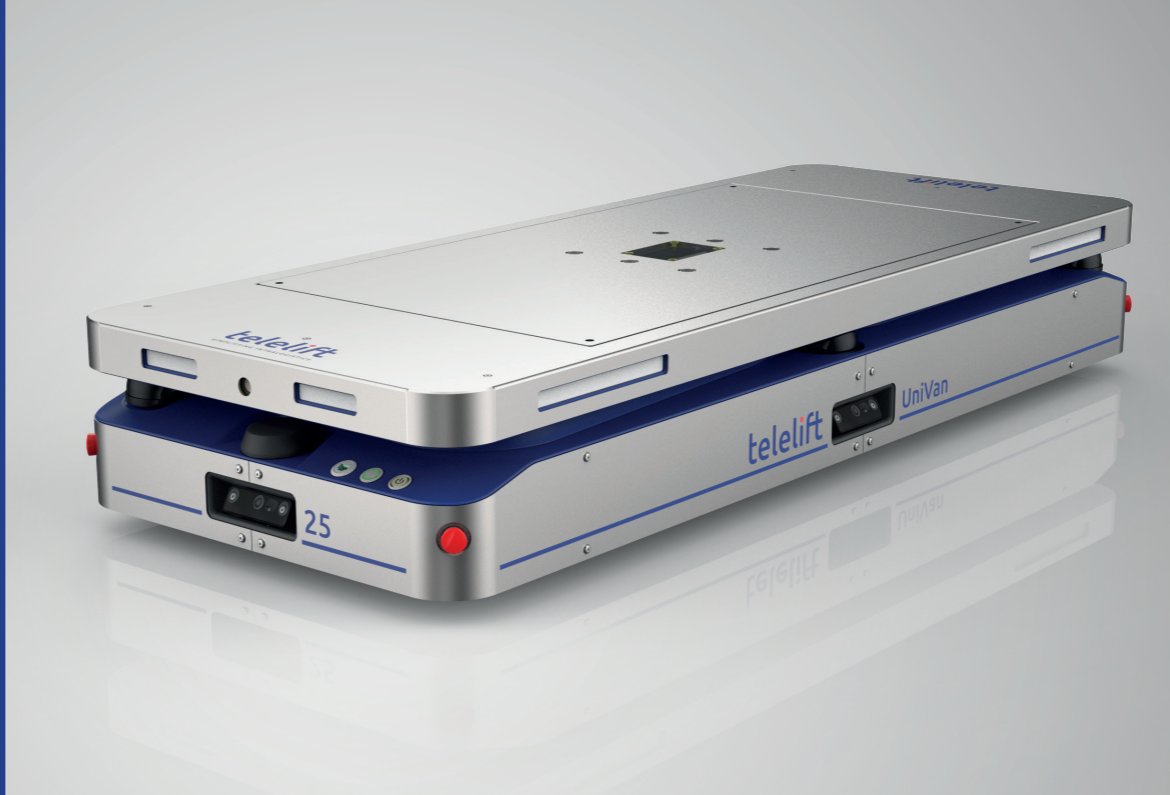
SIMPLIFYING INTRALOGISTICS

Autonomous robots for hospitals

# UniVan 2.0

## Autonomous Mobile Robot Transport System (AMR)

The UniVan 2.0 autonomous mobile robot excels in hospital logistics by reliably supplying materials to patient wards and efficiently coordinating workflows between central functional areas. Equipped with state-of-the-art SLAM navigation, high positioning accuracy, advanced load detection, 3D cameras, and innovative loading technology, the UniVan offers a flexible and safe solution for automated transport in hospitals.



### Quality for safe and reliable operation

The UniVan 2.0 represents the highest quality in hospital logistics. With internationally recognized certifications such as CE and IP54 protection, it ensures reliable and safe operation even under demanding conditions.

Comprehensive safety technology - including laser scanners, 3D cameras, and contactless safety stops - protects patients, staff, and infrastructure while minimizing maintenance costs. In this way, the UniVan 2.0 provides a durable and stable solution that meets the high demands of modern hospitals.



### High efficiency for maximum uptime

The UniVan 2.0 boosts efficiency in hospital logistics through automated, uninterrupted transport around the clock. Modern SLAM navigation enables precise and flexible route guidance without structural modifications. Inductive charging along the route ensures continuous operation with up to 99% uptime. Simple no-code programming allows for quick adaptation of transport orders, saving time and resources in everyday hospital operations.

With the UniVan 2.0, you can boost the efficiency of your hospital logistics, improve the flow of supplies, and reduce the workload on your staff—ensuring smooth operations and better patient care.



### High payload for significant reduction in staff workload

With a payload of up to 500 kg, the UniVan 2.0 reliably handles even heavy loads.

This significantly reduces the physical strain on staff and enables the safe transport of a wide variety of supplies—from medications and sterile goods to laboratory samples. Flexible loading is supported by optional lifts with perforated grids, which ensure safe and versatile handling of the load.



### Smart Navigation for operational efficiency

Equipped with advanced sensors and intelligent software, the UniVan 2.0 navigates autonomously and safely through complex hospital environments. The combination of 3D cameras, laser scanners, and an AI-powered no-code platform enables flexible adaptation to changing requirements and precise obstacle detection. The integrated RFID reader improves cargo traceability, thereby sustainably optimizing operational efficiency.

## Why UniVan 2.0?

The benefits of the UniVan 2.0 at a glance

The UniVan 2.0 is a versatile autonomous mobile robot (AMR) that sustainably optimizes logistics processes in hospitals. Thanks to its flexible navigation and comprehensive safety features, it enables:

- **Efficient material supply:** Automated transport saves time and resources
- **Safe operations:** Comprehensive sensor technology protects patients, staff, and infrastructure
- **Flexible adaptation:** Adapts to any environment and navigates even in complex areas
- **Continuous operation:** Inductive charging for uninterrupted, round-the-clock use
- **Easy operation:** No-code programming for quick customization of transport orders



# Telelift UniVan 2.0

## Technology & Features



### Safety Standards

- Laser scanners for reliable detection of people and obstacles
- 3D cameras for additional obstacle detection in three-dimensional space
- Blue Spot for securing the travel path and increasing visibility
- Acoustic and visual signals, as well as four emergency stop buttons at each corner of the platform
- Non-contact safety stops minimize damage and reduce maintenance costs



### Features and Extras

- Load capacity up to 500 kg for heavy transport
- Maximum speed: up to 2.0 m/s without load, 1.6 m/s with load
- Optional lift with perforated deck (stroke height 80 mm) for flexible loading
- RFID reader on the platform for QR load recognition
- Sound module for messages and alarms

### Autonomous Navigation

- SLAM navigation without the need for installations on the floor, ceiling, or walls
- Automatic map saving for flexible adaptation to different environments
- Omnidirectional movement enables safe navigation even in tight spaces
- Easy operation and maintenance
- Connection via Wi-Fi, 5G-capable for stable communication



### Certifications and Integration

- IP54 rating: Protection against splashing water, dust, and debris
- CE-certified
- Seamless integration into existing hospital infrastructure
- Compatible with various transport systems for flexible logistics



### Smart Charging Management

- Inductive charging along the route for uninterrupted 24/7 operation
- Single-phase power supply without special installations
- Standardized platform solution for quick and easy installation
- 2-hour charging time for up to 8 hours of runtime
- Fast charging from 20% to 80% in just one hour



 Time savings

 Reduced workload on staff

 Optimized material flow

 Higher quality of care

 International Certifications (CE, IP54)

# UniVan mini

## Autonomous Mobile Robot Transport System (AMR)

Teletift UniVan mini is an intelligent and adaptable automatic transport system. It is able to adapt to complex environmental changes. Thanks to its autonomous navigation, it enables versatile and efficient automated transportation. It therefore effectively addresses the challenges of manual transport over the last 50 meters and thus closes the gaps in logistics automation within specific areas of hospital logistics management.



### Cabinet type

High capacity and high payload, for material transport in public areas



### Intelligence

The UniVan mini robots have the ability to automatically navigate and autonomously carry out administrative tasks and automated activities. An intelligent monitoring system supervises the entire operation in real time, including the status of components, access control, elevators, fire protection and servers. The collected data can be exported and analyzed.



### Flexibility

The UniVan mini robot requires little space and can flexibly maneuver around obstacles and into narrow passageways in a complex environment. It can be easily installed in both new and existing buildings.



### Shelf type

Multilevel racks, classified placement, specially designed for material transport within the department



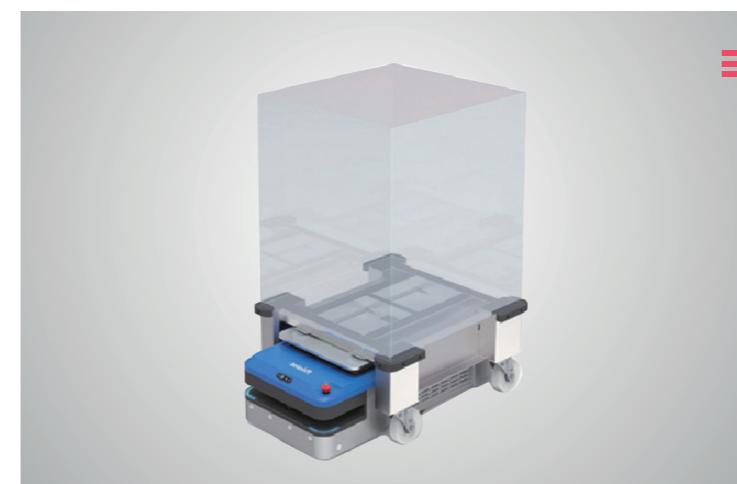
### Safety

For sensitive or valuable goods that require precise distribution and tracking, the UniVan mini can perform operator identification, transmission tracking and multiple access verification. This enables secure and reliable management.



### Multi-Purpose

Various product versions are available, such as closed, open and lockable. Loads up to 300 kg can be transported without difficulty. Different tasks are performed in different scenarios, enabling robots to be used for a variety of purposes.



### Lifting type

Automatic loading and unloading of containers is used for the daily transportation of consumables.

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