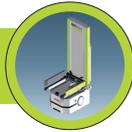# MTV 08 Transporter with Variolift

Intelligent. Easy. Cost-Effective. Transportation.

AMR

The MBT with automatic width adjustment is an autonomous mobile robot (AMR) suitable for payloads up to 90 kg. It is designed for use in environments where people move around and unexpected obstacles can appear.

Navigation

Through intelligent navigation and movement control as well as software that provides automatic map generation and route planning, the transporter navigates autonomously and safely within a defined workspace. No changes to buildings or infrastructure are required.

wide adjustment

The adjustable lift enables the safe transport of different container sizes. The width automatically adapts to the container size. Widths:

min: approx. 250 mm

max: approx. 680 mm

Display Lift narrow

Display lift width


lift wide and at the top

Application lift

The electrically powered lift covers a height difference of up to 1,600 mm. As a result, pickup position A and loading position B can vary. This makes the mobile robot universally usable. The maximum payload on the integrated lift system is 90 kg.

Fleet Management

A specially developed software handles traffic control, job distribution, and the control of the transporters. It distributes transport requests to the most favorable available transporters and compares the vehicles' routes in terms of the required travel distance to the destination.

Application
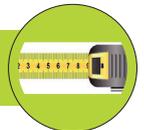
A very broad range of applications. Especially suitable for material transports in production, logistics, and automation. Also available in cleanroom classes. Ideal when installations and machines are positioned apart and the material flow should be closed. Ideal for transporting circuit board magazines, trays, and tote boxes (KLTs). Further options available on request.

MartinSystems®
STANDARDMASCHINEN&SERVICE

Technical Data

Options.

- Positioning System (HAPS) to move in applications that require tight tolerances
- Cell Alignment Positioning System (CAPS) for a fast position recognition and high accuracy
- Fixed push-buttons to activate a movement command
- Wireless I/O-module for integrate from roll-up door, request elevator, request device, manual workstations etc.)
- Light beacon to display the running status
- Remote access in case of any disruption with END-to-END connection
- ESD, Cleanroom

In- / Outputs.

W-LAN 802,11 a/b/g, 2 antenna
Gigabit Ethernet
USB (3x)
RS-232 (2x)
16 digital In- und Outputs
4 analog In- and Outputs
Light Pole
Emergency Stop Button

application structure

lift			belt	
Hub	**positioning speed**	**positioning accuracy**	**transfer speed**	**length**
550 mm - 1.600 mm	max. 50 mm / sec.	+/-0,1 mm	approx. 125 / sec.	approx. 800 mm

Mobility Overview

	Speed (max.)	**Wheels**	**Control**	**Radius Interfering**	**Traversable Gap**	**Traversable Step**
LD250	1.350 mm/s	abrasion resistant rubber	Differential	760 mm	15 mm	15 mm

Power Supply

Voltage	Capacity	Run Time	Recharge Time	Life Expectancy	Charging Method	User Voltage
24 VDC LiFe P04	60 Ah	16 h	3,5 h	7 years (16hrs./day, 5 day/week)	Automatic	5, 12, 24 VDC
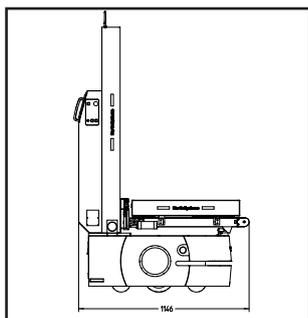
side view
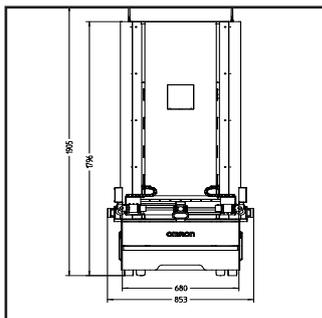
front view
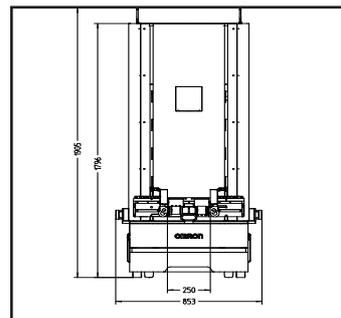
front view

all data can be rounded, may very and are without warranty. Changes are reserved.