

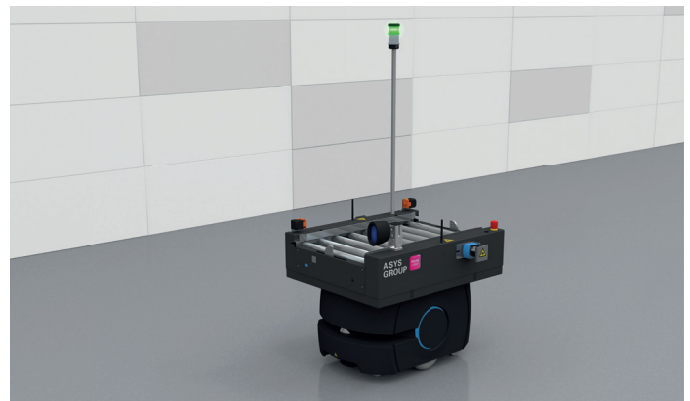
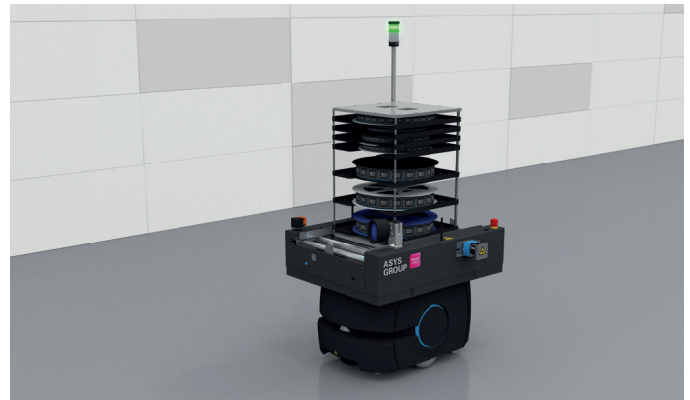
The autonomus transport system for the shop floor

MATERIAL LOGISTICS

Autonomous Mobile Robot



MTPL – AMR platform



Description:

The ASYS MTPL transport platform with the AMR system as the basis is a self-navigating autonomous mobile robot (AMR) designed to transport any kind of material. The system is optimized to handle containers, like PCB-Magazines, SMD-Reel-Containers, KLT-Boxes or consumables at the shop floor. The ASYS AMR systems which recognizes obstacles and automatically equivocates on them and finds an optimum route to reach its transport goal. The platform is available in several dimensions, to provide a universal platform for different materials and container dimensions.

Features:

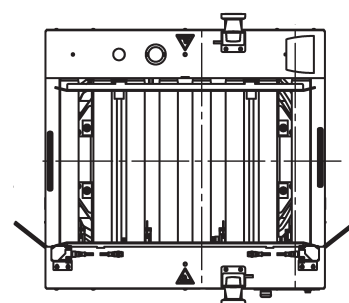
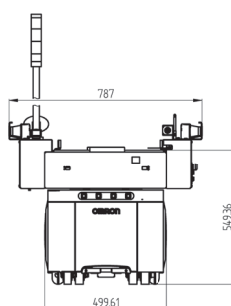
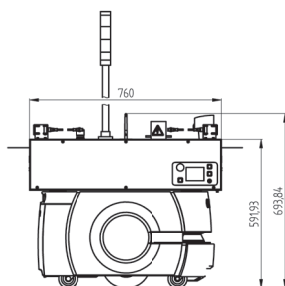
- _flexible platform
- _manual width adjustment
- _payload 35kg
- _front- and backwards access
- _safety scanning laser
- _safety side lasers

Options:

- _high accuracy positioner
- _2 segments
- _automatic width adjustment
- _blue spot
- _signal lamp
- _RFID reader
- _payload 50kg

Accessories:

- _docking station
- _joystick
- _magnetic tape



M-AMR (straight)	MTPL 01 760 Type 1	MTPL 01 760 Type 2	MTPL 02 760 Type 1	MTPL 02 760 Type 2
Machine Configuration				
Number lanes	1	1	1	1
Number segments per lane	1	1	2	2
Transport height (mm)	550	550	550	550
Transport width max. (mm)	400	600	400	600
Interface	product transfer	product transfer	product transfer	product transfer
Transport direction	bidirectional	bidirectional	bidirectional	bidirectional
Operating side	front	front	front	front
Fixes rail	right	right	right	right
Side rail	boh sides	boh sides	boh sides	boh sides
Transport speed (m/min)	10	10	10	10
Payload max. (kg)	50	50	50	50
Transport good format				
Transport good length (mm)	300 to 600	300 to 600	300 to 600 or 2x 300 to 320	
Transport good width (mm)	180 to 400	180 to 600	180 to 400	180 to 600
Transport good height (mm)	60 to 800	60 to 800	60 to 800	60 to 800
Payload per segment max. (kg)	35	35	35	35
Installation Requirements				
Power supply	230 V / 115 V 50 / 60 Hz +/- 10%	230 V / 115 V 50 / 60 Hz +/- 10%	230 V / 115 V 50 / 60 Hz +/- 10%	230 V / 115 V 50 / 60 Hz +/- 10%
Power supply system	L1 + N + PE	L1 + N + PE	L1 + N + PE	L1 + N + PE
Power consumption	0,8 kW	0,8 kW	0,8 kW	0,8 kW
Machine Description				
Length (mm)	760	760	760	760
Width (mm)	787	987	787	987
Height (mm)	279	279	279	279
Height incl. AMR (mm)	662	662	662	662
Netto weight (kg)	50	55	50	55
Noise level	57 dB	57 dB	57 dB	57 dB
Roboter system				
Driving speed (m/s)	1,35	1,35	1,35	1,35
Operating time (h)	approx. 10	approx. 10	approx. 10	approx. 10
Charing time (h)	approx. 4 (5:1 ratio)	approx. 4 (5:1 ratio)	approx. 4 (5:1 ratio)	approx. 4 (5:1 ratio)
Battery life cycles	2.000 (cell nominell)	2.000 (cell nominell)	2.000 (cell nominell)	2.000 (cell nominell)
Kommunikation WIFI	2,4 GHz / 5 GHz, 802,11 a/b/g	2,4 GHz / 5 GHz, 802,11 a/b/g	2,4 GHz / 5 GHz, 802,11 a/b/g	2,4 GHz / 5 GHz, 802,11 a/b/g
Ambient temperature (°C)	5 to 40	5 to 40	5 to 40	5 to 40
Ambient humidity (%r.h.)	5 to 95	5 to 95	5 to 95	5 to 95
Operating environment	Indoor usage only, no excessive dust, no corrosive gas			
Floor conditions	Linoleum, epoxy, or concrete (no water, no oil, no dirt); Flatness FF25 (ACI 117)			
Traversable step (mm)	max. 10	max. 10	max. 10	max. 10
Traversable gap (mm)	max. 15	max. 15	max. 15	max. 15
Climb grade	Flat floor only	Flat floor only	Flat floor only	Flat floor only
Routing	Autonomous routing by localizing with safety scanning laser based on environment mapping			
Drive wheel	Non-marking nylon foam-filled rubber, non-conductive			
Passive caster	Conductive thermoplastic rubber on polyolefin			