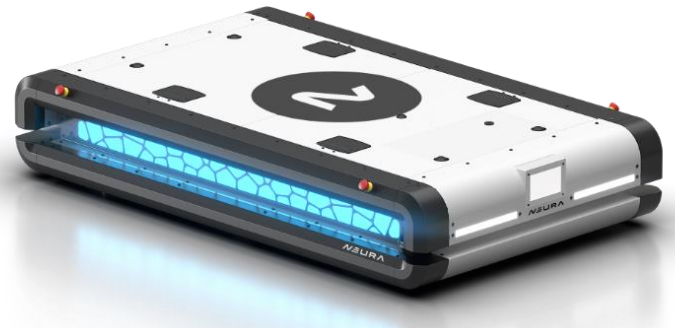


MAV®

Multi-Sensing Autonomous Vehicle

Datasheet

World's smartest and most performant AMR.

MAV revolutionizes intralogistics by loading and moving any type of goods autonomously. Thanks to its integrated sensors, it can navigate and safely detect obstacles without requiring additional peripheral devices. Combining MAV with a collaborative or cognitive robot creates powerful mobile manipulator solutions.

Specifications	MAV 500	MAV 1500
Payload	500 kg	1500 kg
Dimensions	L1255 mm x W678 mm x H294 mm	L1530 mm x W910 mm x H293 mm
Weight	300 kg	400 kg
Velocity	1.5 m/s	1.5 m/s
Actuation	Differential drive	Differential drive
Communication interfaces	CAN*, Ethernet	CAN*, Ethernet
Outbound interfaces	1x Ethernet, 1x CAN*	1x Ethernet, 1x CAN*
IP classification	IP 44	IP 44
Positioning accuracy	±5 mm	±5 mm
360° safety laser scanner	PLd/Category 3 (ISO 13849-1)	PLd/Category 3 (ISO 13849-1)
Status indicators	Status LEDs	Status LEDs
Lifting unit	0-55 mm, 4 x 125 kg	0-55 mm, 4 x 374 kg

Contact us to learn more about MAV+

Mobile manipulator solution *MAV+*

Combination with MAiRA or LARA

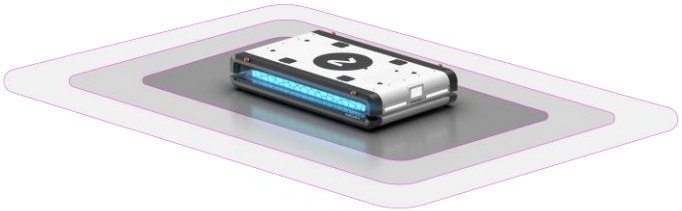
Flexible rotating axis

Pallet-sized shelf

Designed and engineered in Germany

Sensors

Detection	Touchless Safe Obstacle Detection
Safety	Laser scanners for 360° view



Warning zone 2 (reduced speed) | Warning zone 1 (stop) | Safety zone (safe stop)

Software

Operating system	NR CRUISE Control
Open architecture	3rd party apps, access to low level controllers and sensor data
Safety features	Safe Human Detection, Safe Speed Control

Programming features

Human-robot-interaction	PC-based GUI
Environment visualization	Dynamic mapping (SLAM), pallet identification, dynamic obstacle bypass and trajectory replanning*
Fleet management	Formation driving*, fleet monitoring tool*
API	NeuraPy MAV (Python)

Life cycle

Service interval	12 months
T1 components lifetime	Min. 36.000 h
T2 components lifetime	Min. 25.000 h

Battery specifications MAV 500

Battery	51.8 VDC / 60 Ah
Supply voltage	230 V, 50-60 Hz
Loading current	60 A
Charging time	1.2 hours
Up time	5 hours
Charging	Manual, inductive

Battery specifications MAV 1500

Battery	51.8 VDC / 120 Ah
Supply voltage	230 V, 50-60 Hz
Loading current	60 A
Charging time	2 hours
Up time	10 hours
Charging	Manual, inductive

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