



Revolutionizing intralogistics MAV® 1500

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.



Payload 1500 kg



Max. speed 1.5 m/s



Dimensions L 1530 mm x W 910 mm x H 293 mm



Up time
10 hours

With a payload of up to 1500 kg, MAV can efficiently pick up, transport and deliver pallets with all kinds of heavy goods.

Using the latest technology of laser scanners with a 360° vision, it can safely navigate in any intralogistics environment.

























MAV® 1500 Cally Fayload Up to 1500 kg





Compact yet powerful

M/V * 500

MAV 500, the newest member of our MAV family, is your first choice whenever a strong but compact intelligent transport robot is needed.

Its compact dimensions allow it to navigate through tight spaces such as doorways, opening a wide range of applications – from laboratory automation to stock replenishment.



Payload 500 kg



Max. speed 1.5 m/s



Dimensions L 1255 mm x W 678 mm x H 294 mm



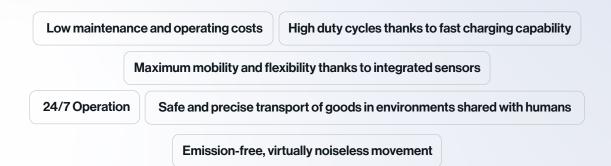
Up time 5 hours





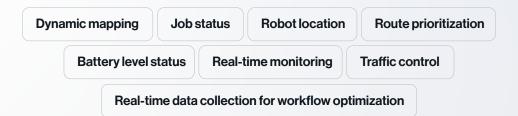
Advantages using MAV®

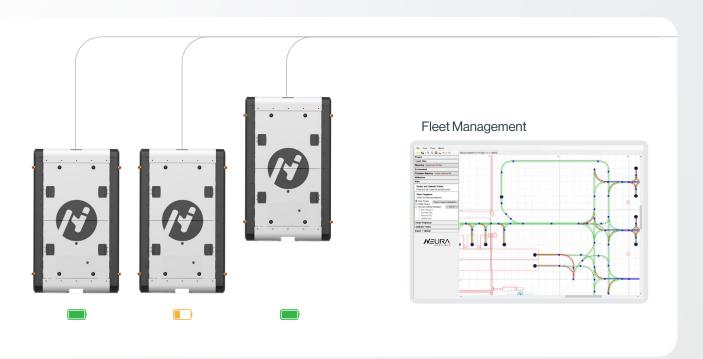
In order to satisfy the needs of our partners and customers, NEURA Robotics has developed specific solutions that meet the ever-increasing challenges. No matter what kind of loads manufacturers want to transport, MAV is the perfect solution to move heavy payloads with precision and efficiency.



Seamless fleet management

Dedicated software to efficiently streamline and control a group of MAVs, for instance as part of a system in a smart factory.











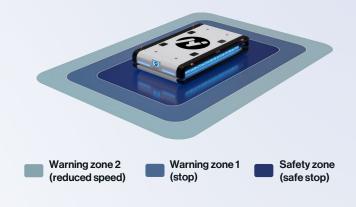
Technical specifications

MAV 500	MAV 1500
500 kg	1500 kg
L1255 mm x W678 mm x H294 mm	L1530 mm x W910 mm x H293 mm
300 kg	400 kg
1.5 m/s	1.5 m/s
Differential drive	Differential drive
CAN, Ethernet	CAN, Ethernet
1x Ethernet, 1x CAN	1x Ethernet, 1x CAN
IP44	IP 44
±5 mm	±5 mm
PLd/Category 3 (ISO 13849-1)	PLd/Category 3 (ISO 13849-1)
Programmable status LEDs	Programmable status LEDs
0-55 mm, 4 x 125 kg	0-55 mm, 4 x 374 kg
	500 kg L1255 mm x W678 mm x H294 mm 300 kg 1.5 m/s Differential drive CAN, Ethernet 1x Ethernet, 1x CAN IP 44 ±5 mm PLd/Category 3 (ISO 13849-1) Programmable status LEDs



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

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



Programming features	
Smart GUI	NR CRUISE Interface
Human-robot- interaction	Visual, audio, force feedback, motion tracking, PC-based GUI
Environment visualization	Dynamic mapping (SLAM), pallet identification, dynamic obstacle bypass and trajectory replanning
Fleet management	Formation driving, fleet monitoring tool

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
Uptime	10 hours
Charging	Manual, inductive

Note:

We reserve the right to make technical changes to the products and changes to the contents of this document at any time without prior notice. For orders, the respective agreed properties are decisive. NEURA Robotics GmbH assumes no responsibility for any errors or omissions in this document.

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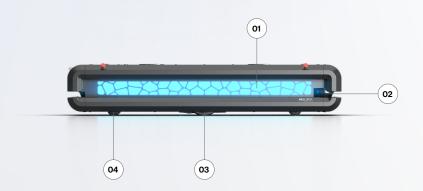




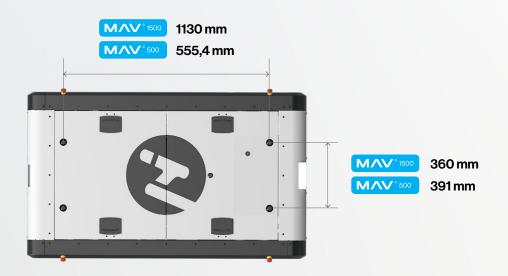
Overview



- 01 Lifting units
- 02 Laser scanner
- 03 LED status indicators
- **04** Direction indicator
- 05 HMI touch screen
- **06** Emergency stop button
- 07 Cover



- 01 LED status indicators
- 02 Laser scanner
- 03 Drive wheels
- **04** Universal wheels





Mobile manipulator solutions for a maximum of flexibility

Combining MAV with a collaborative or cognitive robot enables complete process automation, significantly reducing the time required for a single operation. The combination of this system with a shelf allows smooth handling of all types of production parts.







Intralogistics made easy





Multi-Sensing Autonomous Robot











Official partner:



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