



## 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.

























# MAY 1500 Neavy Payload 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.

Low maintenance and operating costs

High duty cycles thanks to fast charging capability

Maximum mobility and flexibility thanks to integrated sensors

24/7 Operation

Safe and precise transport of goods in environments shared with humans

Emission-free, virtually noiseless movement

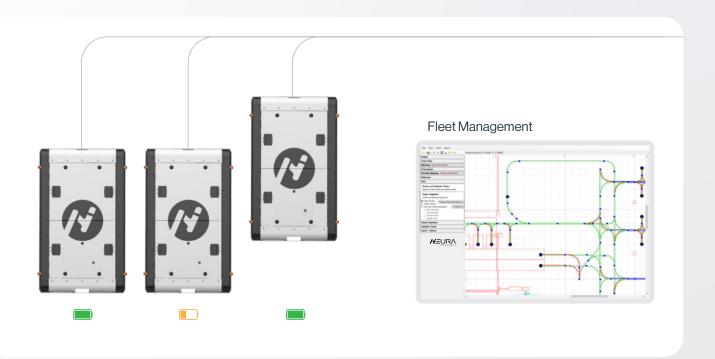
## Seamless fleet management

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

Dynamic mapping Job status Robot location Route prioritization

Battery level status Real-time monitoring Traffic control

Real-time data collection for workflow optimization









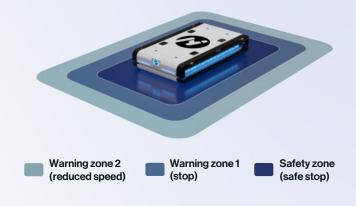
# Technical specifications

W910 mm x H293 mm
rive
et
x CAN
ry 3 (ISO 13849-1)
ble status LEDs
374 kg
r



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

Software	
Operating system	NR CRUISE Control
Open architecture	3 <sup>rd</sup> 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:

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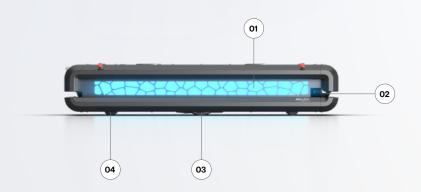




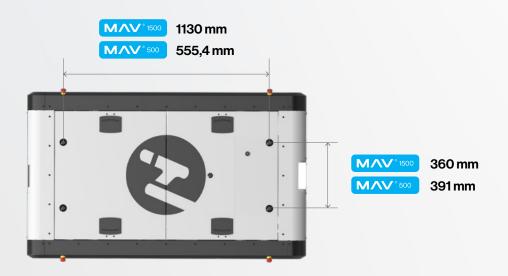
### Overview



- 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











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