



MULTI-SENSING AUTONOMOUS VEHICLE

Datasheet



General Robot Specification

Payload	1,500 kg
Loading Current	95A
Actuation	Differential Drive
Velocity	1.5 m/s
Communication Interface	CAN
Outbound Interface	1x Ethernet /1x CAN
IP classification	IP54
Weight	400 kg
Dimensions	L1530xW910xH293
Positioning Accuracy	±5mm
Safety Laser Scanner 360°	PLd/Category 3 (ISO 13849-1)
Status Indicators	Programmable Status LEDs
Lifting unit	4 x 0-55mm á 400 kg, 4x4000N

MAV[®] is an autonomous mobile robot which is designed to collaborate with YOU.

MAV[®] is a Multi-Sensing Autonomous Vehicle which is used for indoor intralogistic tasks. It can autonomously transport items and navigate freely in its environment. It is a robotic assistant which will make the life of people working within production sites easier and therefore streamlines production. Every second of a standing conveyor belt leads to an overall production stop since the operations are cascaded. With multiple MAV[®]s, one malfunctioning MAV[®] can be directly replaced by another one which keeps the production running and due to their autonomous navigation more flexible.

Battery Specification

Battery	48VDC/ 120Ah
Supply Voltage	400V, 50-60Hz
Charging Time	1h
UpTime	10h
Inductive Charging	\checkmark

Life Cycle

Service Interval	12 Months
T1 Components Lifetime	min 36,000 h
T2 Components Lifetime	min 25,000 h



Sensors

Vision	3D RGB-D Camera
Safety	Touchless Safe Human Detection Safety Scanners
Sound	3D Voice Recognition Sensor

Software

Operating System	NR CRUISE Control
Open Architecture	3rd Party Apps, Access to Low Level Controllers & Sensor Data
Safety Features	Safe Human Detection, Safe Speed Control

Programming Features

Smart GUI	NR CRUISE Interface
Fast Programming	Voice Control, Gesture Control
Human-Robot-Interaction	Visual-, Audio- and Force-Feed- back, 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

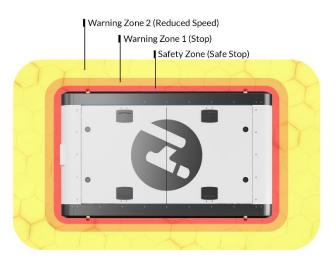


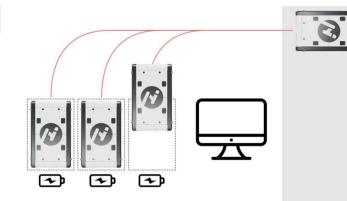
MAV® + MAiRA®

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MAV® for logistics

MAV® + LARA®

Note:

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