MHP 08500 Mechafant

Intelligent. Easy. Cost-Effective. Transportation.

AMR

The Mechafant is an autonomous mobile robot (AMR), that can handle payloads up to 1.000kg.

It is designed for usage in environments where people move and unexpected obstacles occurs. Additionally it is equipped with a blue spot safety light to improve the recognizability in dif-ficult working environments.
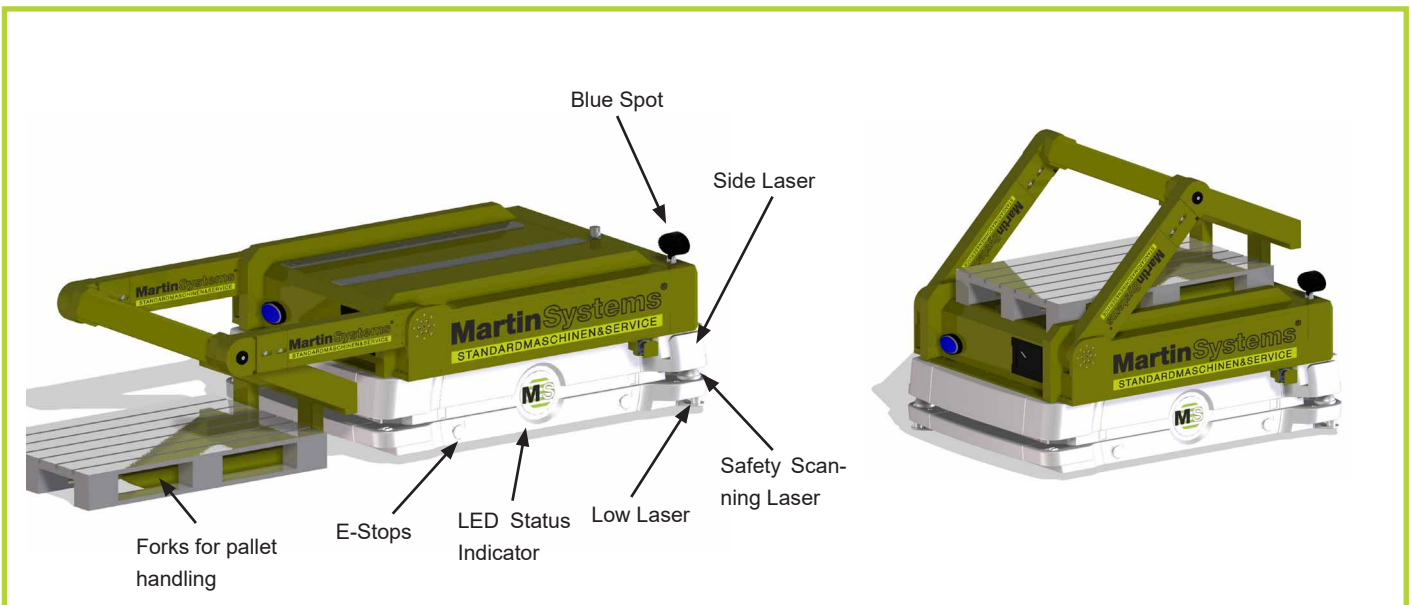
Navigation

The Mechafant has intelligent navigation and motion control. Combined with a software for automatic map generation and orientation, the mobile robot moves autonomous and safe inside a defined working area.

Based on the abilities of the Mechafant modifications to the shop floor are not necessary.

Superstructure

Due to the unique superstructure with hydraulic driven forks the Mechafant can pick up euro pallets directly from the shopfloor without any assisting machinery. During the transportation process the euro pallets are set on the loading area on top of the robot.

Blue Spot

Side Laser

Forks for pallet handling

E-Stops

LED Status Indicator

Low Laser

Safety Scanning Laser

Safety

People and objects approaching the Mechafant are detected by two safety scanning lasers with a coverage angle of 360°. If a person or object comes to close to the Mechafant, it will safely stop until it's safety area is clear again.

The load is monitored by two additional side lasers to detect objects that protrude over the outline of the Mechafant.

Fleet Management

The fleet management tasks are executed by intelligent software that performs traffic control, job distribution and navigation of the robots. It constantly monitors all robots regarding their position, orientation and status. Based on this data the software determines which robot has to perform the next task to ensure the best possi-ble flow of goods.

Application

The Mechafant offers a wide range of applications in multiple sectors.

It can unfold its full potential by linking machinery and manual work-stations with different types of storage facilities.

Contact us for more information on how to streamline your flow of goods with autonomous robots.

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Technical Data

Options.

High Accuracy Positioning System (HAPS) to move in applications that require tight tolerances

Cell Alignment Positioning System (CAPS) for a fast position recognition and high accuracy

Fixed push-buttons to activate a movement command

Call-Button to configure two digital In- and Outputs (e.g. open roll-up door, request elevator, request device, etc.)

Light beacon to display the running status

Remote access in case of any disruption with END-to-END connection

Panel.

7 Zoll LCD-Display

Interfaces.

W-LAN 802,11 a/b/g/n/ac

Ethernet Ports (1xMaintenance, 1xUser, 2xInternal)

8 digital In- and Outputs

4 analog In- and Outputs

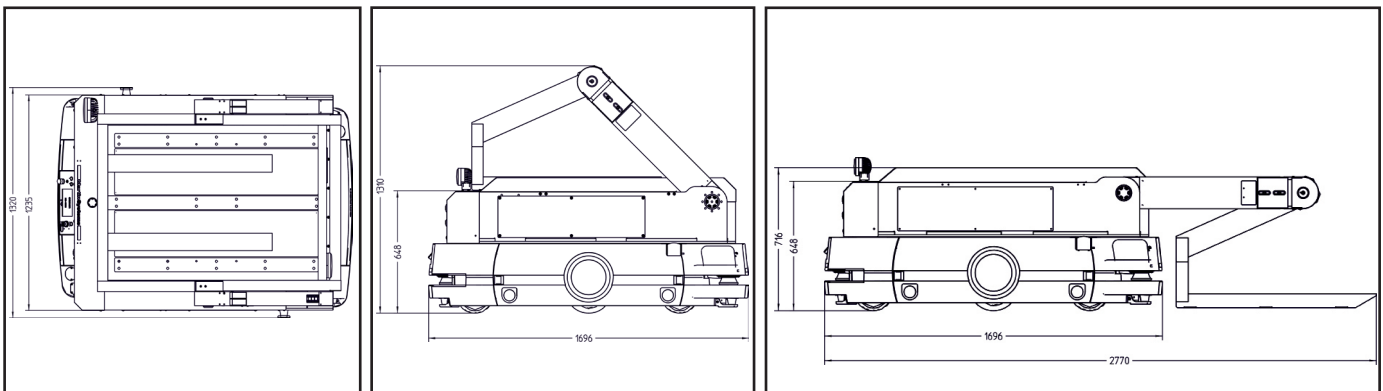Digital Audio Out

Emergency Stop Button

Review HD1500

Payload	Pallet Weight	Pickup Height max.	Dead-Weight	Speed (max.)	Rotating Speed	Traversable Gap	Traversable Step
1.500 kg	1.000kg	400mm	585kg	1.800mm/s	60°/s	15 mm	10 mm

Power Supply

Voltage	Capacity	Weight	Run Time (loaded)	Recharge Time	Battery Expectancy	Charging Method	Power Supply
42-57 VDC	70 Ah	68 kg	9 h	24 min	9.000 Ladezyklen	Automatic	230V oder 400V

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All data can be rounded, may very and are without warranty. Changes are reserved.