

# Nipper AGV V4

**MR MOBILE ROBOTS**  
Your Nipper Integrator



## Description

The Nipper AGV V4 is a compact autonomous mobile robot designed for internal horizontal transport of load carriers. It has the dimensions of a manual pallet truck, but with the capacity of a forklift truck. The Nipper AGV V4 is the safe, reliable co-worker in dynamic environments where people and machines are continuously moving. Missions (tasks) for the Nipper AGV V4 are optimised by the Fleetmanager. The Nipper AGV V4 is the next step in automation of production and warehouse facilities offering a scalable and flexible solution.

[mobile-robots.de/nipper](https://mobile-robots.de/nipper)

## Main specifications

**Omni directional**

Driving

Up to **1.5 m/s**

Speed

Up to **1.200 kg**

Lifting Weight

**360°**

Safety



## Specifications

<b>Material frame</b>	Galvanized steel
<b>Material forks</b>	Stainless Steel SS304
<b>Driving</b>	4 omnidirectional drives
<b>Dimensions</b>	1767 x 814 x 2035 mm (LxWxH)
<b>Lifting height</b>	150 mm (low 88 mm - high 238 mm)
<b>Tare weight</b>	330 kg
<b>Battery</b>	Wireless charging (LiFePO4)
<b>Charging time</b>	15 min (from 20% to 80%)
<b>Operation cycle</b>	Approx. 4 hour, depending on conditions
<b>Voltage</b>	48V
<b>Load carrier</b>	(Partial) four way pallets Two way pallets

## Controls

<b>Main controls</b>	Joystick and/or touchscreen
<b>HMI</b>	7" full colour touchscreen
<b>Navigation</b>	Natural feature navigation
<b>Fleetmanager</b>	Server, web based access
<b>Connectivity</b>	Wifi

**NIPPER** production logistics

**Smart move**

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## Safety

- 360° safety PLd (performance level d)
- Sick nanoScan 3
- Two emergency stops
- Human - Robot interaction module
- Main switch with Lockout Tagout
- STO SIL3
- Sounder

## Options

- Barcode camera
- Object detection

## Operational conditions\*

<b>Operating temperature</b>	From 0° C to 40° C
<b>Relative humidity</b>	From 0% to 95%, non condensing
<b>Ground clearance</b>	10 mm
<b>Unevenness floor</b>	Max. 5 mm
<b>Floor</b>	Dry, flat, non-dust

\*Detailed "Required Floor Conditions" applicable

## Conformity and compliance

- CE certification
- 2006/42/EC
- ISO 3691-4

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## Drawings

