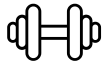# D-Bot MAR
Effortless Autonomous Material Handling

With the D-Bot MAR, you can automate routine transport tasks, make better use of your production capacity and cut downtime - all without a major IT project.

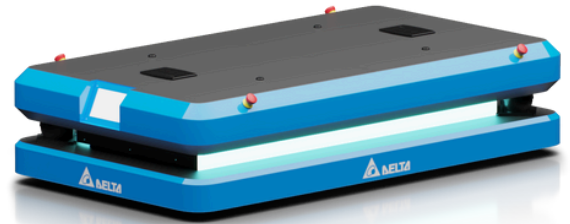|					
Payload	**Workspace Flexibility**	**Consistent Accuracy**	**Enhanced Speed**	**Safety Features**	**Up-Time**
500 kg	Point turning	±5 mm	max. 1.5 m/s	PLd/Cat. 3	7 h

MADE IN GERMANY

Full Range 360° Detection
Safe and precise transport of goods in environments shared with humans, thanks to integrated, all-round obstacle detection

Optimized Mobility
Improves your internal logistics, increasing adaptability like never before

Wireless Charging
Fast, contactless charging stations keep your fleet running and - traditional plug-in option, where preferred

Autonomous Navigation
Independent navigation without the need of extra components like magnetic tapes or beacons
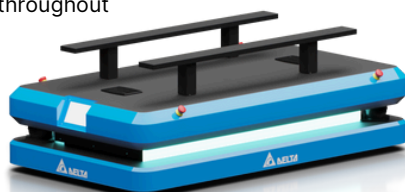
Made in Germany
Short delivery routes and direct feedback into development ensure prompt support and rapid implementation of your requirements

Specifications

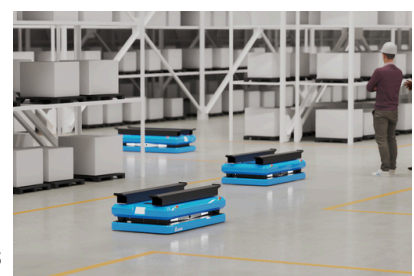|	
Payload	500 kg
Dimensions	L 1220 mm x W 690 mm x H 290 mm
Weight	300 kg
Max. Speed	1.5 m/s
Wheel Configuration	Differential Drive
Turning Radius	Point turning
Ground Clearance	120 mm
Communication Interfaces	EtherNET/IP, TCP/IP, Python API
Outbound Interfaces	1x Ethernet, 1x CAN
IP Classification	IP44
Positioning accuracy	±5 mm
360° safety laser scanner	PLd/Category 3 (ISO 13849-1)
Lifting unit	45 mm, 4 x 140 kg
Charging Types	Wired & Inductive
Battery	51.8 VDC/ 60 Ah
Charge Time	1.5 h

Add-Ons

Upgrade your MAR with optional pallet rails for secure, slip-free handling of Euro pallets and other pallet types - keeping your loads stable and protected throughout every transport.

Autonomous Movement

Independent navigation without the need for additional components and Navitec's fleet-management system makes the D-Bot MAR ideal for seamless integration into intelligent fleet management systems, featuring native VDA5050 interface support.

NAVITEC SYSTEMS