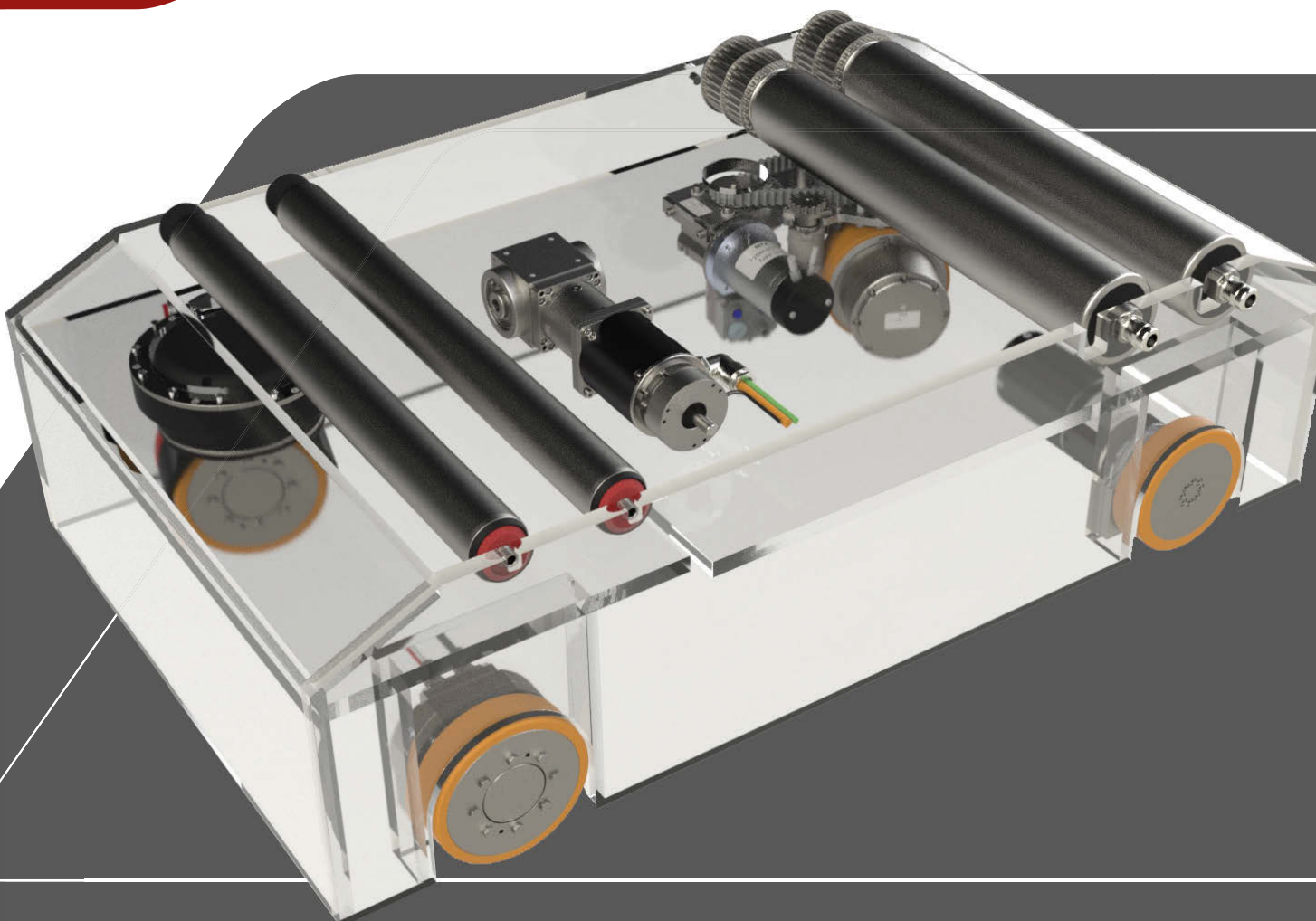


AGV/AMR- SOLUTIONS

**EVERYTHING from
a single source**

Your full-service supplier
for drives on autonomous
vehicles



TOTAL SOLUTIONS that set standards!

As a full-service supplier for drives for autonomous transport systems, MTA is the right partner for all conceivable motion sequences in mobile conveyor technology.

MTA's drives are at home in open spaces, winding passages or on straight tracks. The MTA portfolio also includes many drives for load-carrying equipment. These include, for example, motor

rollers and drum motors for conveying containers and pallets to and from the machine, lifting drives for transport platforms and telescopic drives for shuttles.

Our innovative drive systems are designed to maximise the performance, precision and reliability of your autonomous guided vehicle systems.

Drives for load-carrying equipment



Application		Container transport AGV/AMR/Shuttle	Pallet transport AGV/AMR/Shuttle	Lifting platform AGV/AMR/Shuttle
Voltage	VDC	24/48	24/48	24/48
Transport weight	kg	50	1500	1500
Diameter	mm	50/60	80/89	-
Integrated motor controller		•	•	Decentralised
Positioning function		•	•	-
Integrated holding brake		no	optional	•

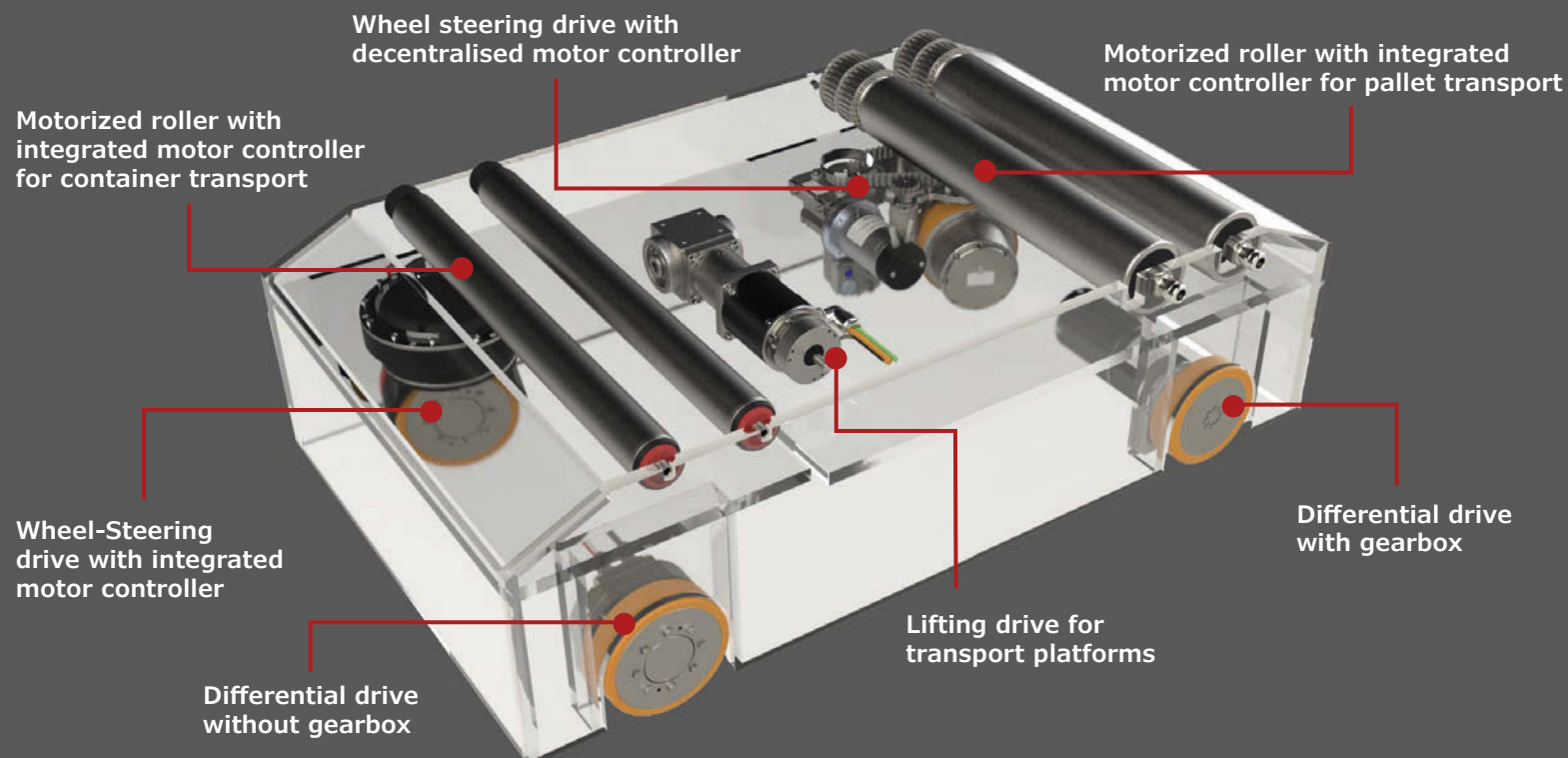


DIFFERENTIAL DRIVES

MTA wheel drives in the differential drive version are integrated drive units for free-moving transport systems (AGV/AMR) and rail-bound vehicles (shuttles).

Depending on the application, the differential drives are implemented with or without a gearbox (as a direct drive). The motor controller for the drive control can be either integrated in the drive or mounted separately.

A comprehensive drive portfolio of differential drives is available for total weights from 50 kg up to 2000 kg.



DRIVES FOR LOAD-CARRYING EQUIPMENT

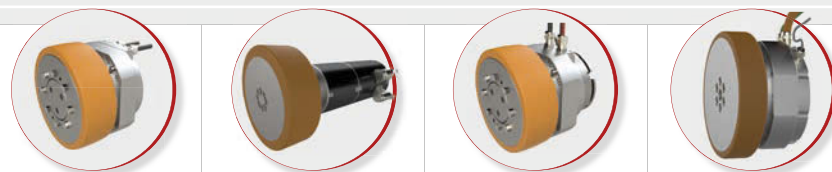
Motorized rollers from MTA are used to carry containers (100 kg) or pallets (1500 kg). The drive controllers are integrated into the tube, which reduces the amount of cabling to a minimum.

The lifting and lowering of transport platforms on underfloor vehicles is realised with MTA lifting drives. Loads up to 1500 kg can be easily lifted and lowered in this way.

WHEEL-STEERING DRIVES

The combined wheel-steering drives are drive systems that allow maximum power density in a compact design. Several designs in different versions ensure maximum flexibility in vehicle design.

Differential drives



Application		AGV/AMR/Shuttle			
Design		gearless	with gearbox	with gearbox	with gearbox
Voltage	VDC	48	24/48	48	24/48
Speed	m/s	3	1.6	2	1.3
Wheel load	kg	100 200	200	500	500
Overall length (without options)	mm	72 62	225	100	123
Wheel diameter	mm	115 140	150	135	250
Decentralised motor controller		MTA motor controller for two axes			
Integrated motor controller		Option			
Functional safety		Option			
Holding brake		Option	•	Option	•
Operating brake		•	no	•	Option

Wheel-Steering drives

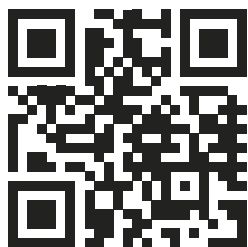


Application		Underfloor vehicles, AGV/AMR			
Voltage	VDC	48	48	48	48
Speed	m/s	2	1.6	1.6	1.6
Wheel load	kg	500	500	250	150
Construction height	mm	203	187	150	125
Wheel diameter	mm	135	130	100	90
Turning circle	mm	232	213	220	200
Swivel angle	°	360	240 (±120)	240 (±120)	240 (±120)
Integrated motor controller		•	Decentralised with MTA motor controller for two axes		
Integrated functional safety		•			

In our **ALL-IN-ONE** solution, the **motor controllers** for traction and steering including the **functional safety functions** and **redundant encoders** are **integrated** in the drive. The connections for the customer are reduced to the power supply and Ethernet communication in real time.

For use with an external mounted drive controller such as MTA motor controller for two axis or third-party controllers, the design with individually adaptable customer interface is available. Safety encoders or holding resp. operating brakes can also be used.

This folder contains information about our products. Further details about characteristics and currently valid technical data are given in our offers and order confirmations. Subject to typographical and printing errors. Images and texts from this folder may not be used without our express written consent. Illustrations: MTA. Owner, editor and publisher: MTA GmbH, Westbahnstrasse 32, A-4482 Ennsdorf. Printed February 2024.






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