



MOBOTRIC



Hard mount



Rocker bogie mount



Spring mount

# MoboDrive DD

COMPACT, INTEGRATED DRIVE SYSTEMS FOR DIFFERENTIALLY DRIVEN AGVS AND AMRS

At Mobotric, we know that success in mobile robotics goes beyond advanced products—it's about reliability, flexibility and support. MoboDrive DD combines power and efficiency with smart design that saves time during installation, commissioning and maintenance.

Integrated traction motor and control electronics ensure optimal torque and stability, while smart metal components provide space-saving, heat dissipation, and suspension, maximizing performance and durability.

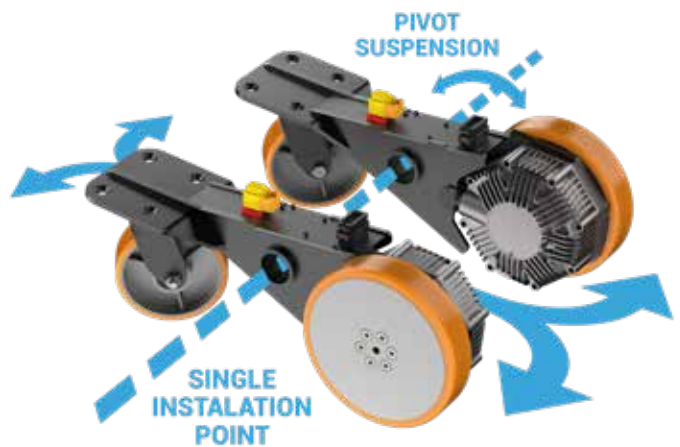
Partner with Mobotric for performance optimization, quality control, flexible customization, and comprehensive post-sales support—your trusted solution for driving mobile robotics forward.

# MoboDrive DD

INTEGRATED DRIVE SYSTEMS for Differentially Driven AGV/AMRs

## Highlights:

- Compact Plug & Play Drive System: Traction units with a tuned motor controller smartly integrated
- Simple assembly and maintenance with single power and communication connectors
- Optimized thermal design with heat-generating components removed from the central compartment of the robot
- Easily customizable to fit various vehicle chassis
- Supports all differential drive vehicle architectures
- Additional features: Brake control, state-of-health monitoring, dynamic PID tuning, and more



## Safety & Communication:

- CanOPEN, EtherCAT, ProfiNET
- Safety supervision encoder: SSI, BiSS-C, Sin/Cos

## Applications:

- Dynamic intralogistics use cases up to 1,5T payload
- Automation & Manufacturing slow-speed & high precision with payloads up to 4T

## Ordering information:

**MoboDrive DD – RR – 500 – 225 – 54 – 48 – C – 00**

DD - Differential Drive

Unit Type  
R - Rocker bogie  
S - Spring  
H - Hard

Unit Position  
R - Right  
L - Left

Max wheel Load  
500Kg  
1.000Kg  
1.200Kg

Wheel diameter  
180 mm  
190 mm  
200 mm  
210 mm  
225 mm  
250 mm

Nominal Wheel Torque  
35 Nm  
40 Nm  
50 Nm  
54 Nm  
80 Nm  
100 Nm

Customer specific

Communication  
C - CAN  
EC - EtherCat  
PN - Profinet

Nominal Voltage  
48V  
24V

**Right partner for Mobile manufacturers of any size**

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