

# AMADEUS TUGGER

For manual, semi-automatic and automatic operation

**DS**  
AUTOMOTION

**VDA 5050  
and LIF file  
compatible**

## ***The most economical and safest solution for recurring logistics processes***

AMADEUS tugger offers a significant increase in efficiency and safety compared to manual tugger trains. The risk of accidents is significantly reduced, which considerably increases the safety of your employees. With intelligent, optimized route planning, the shortest and most efficient routes are always selected so that your employees can concentrate fully on the smooth exchange of load carriers.

- ☐ impressive tugging capacity of 4.5 tons / 9.920 lbs
- ☐ powered by battery or fuel cell
- ☐ for manual, semi-automatic and automatic operation



Discover AMADEUS tugger live  
using augmented reality!



# AMADEUS TUGGER

For manual, semi-automatic and automatic operation

## High level of personal safety

Our AMADEUS tugger trains offer comprehensive safety with state-of-the-art technology. Safety laser scanners and emergency stop systems prevent dangerous collisions and reliably protect your employees. The rear safety scanner detects people when coupling and uncoupling as well as when driving along in semi-automatic or manual mode. A 3D camera and bluespot further increase safety, while side laser scanners protect against collisions with objects.

## From manual to automatic operation. There are no limits.

The AMADEUS tugger offers a flexible solution for in-house transportation in intralogistics. Whether fully automated, semi-automated, or manual – our modern tugger trains seamlessly adapt to your requirements. It's even possible for an employee to ride along without having to steer the tugger train.



## Technical data

Towing capacity:	max. 4.5 t / 9.920 lbs
Speed:	max. 2,2 m/s / 6.56 f/s
Dimensions length x width x height:	1,900 x 900 x 2,500 mm approx. 74.80 x 35.43 x 98.43 in
Load pick-up:	manual hitch (automatic hitch)
Navigation:	contour-based
Power supply:	automatic charging, battery change
Battery:	Li NMC lead / gel hydrogen fuel cell

- Flexibility** — The tugger train can be operated fully automatically, semi-automatically or manually.
- Ergonomics** — The height-adjustable backrest and seat roller for an ergonomic driving position.
- Maintenance** — Reduced maintenance thanks to easily accessible components in a single housing.

## Fleet and energy management

The integration of the NAVIOS fleet management system and compliance with the VDA 5050 interface ensure safe collaboration with other mobile robots in your environment.

Sustainability is also a top priority when it comes to energy supply: from traditional batteries to fuel cell technology - efficiency and environmental friendliness are firmly integrated into the energy concepts.



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