



The flexible pallet AGV for intralogistics

Melkus G130 3.0

Picking up and transporting load carriers are the primary tasks performed by Melkus' intelligent pallet AGV. The Melkus G130 3.0 excels with fast transverse travel, improved functional safety thanks to 360° scanners, contactless battery charging, a high battery capacity allowing uninterrupted operations throughout an entire shift and a detachable drive unit for modular use with various load carriers.

Technical Data

Load capacity:	1,200 kg
Speed:	1.67 m/s
Navigation:	SLAM lidar navigation (+/- 1 cm)
Dimensions:	approx. 1.770 mm x 800 mm x 2.235 mm (l x w x h)
Weight:	approx. 250 kg
Lifting height:	240 mm
Turning diameter:	approx. 1.850 mm
Drive concept:	Omni-directional
Fork height:	87 mm
Fork length:	1,300 mm

Melkus Mechatronic

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Flexible

- Omnidirectional drive facilitates use in confined spaces and manoeuvrability in all directions
- Rapid processing of transport orders thanks to fast transverse travel
- SLAM Navigation
- easy to integrate into existing systems (REST API, MQTT, VDA 5050)
- flexible order assignment

Intelligent

- High personal safety thanks to 360° scanners
- compact Sigmatek automation solution
- operation and diagnostics also via smart devices
- WIFI communication with fleet manager system
- gentle material transport



Efficient

- reduced path due to transverse drive capability
- LiFePo4 power packs provide capacity for operation throughout an entire shift
- Less downtime due to fast charging
- no wear on the charging contacts
- energy-efficient due to low weight
- maintenance-free hydraulic lifting mechanism

Application Areas

- Point-to-point transport
- Transport tasks in confined spaces
- Transport of materials and workpieces in production
- Modular AGV for use with different load carriers



Features

- 7" touchscreen display
- LED status indicator in hood and signal mast
- Safety light with arrow projection
- laser-assisted pallet identification

Optional Accessories

- Load securing bracket
- 3D camera-based collision detection
- 2D barcode scanner