Melkus HLG120

Lifting, moving, transporting and transferring load carriers – these are the tasks of the intelligent pallet AGV of the Melkus series. The Melkus HLG120 combines the latest technology with industrial-grade design. It offers high payload capacity with high lifting height and minimal space requirements, with a focus on safety.

Technical data

Load capacity:	1,300 kg
Speed:	1.5 m/s
Navigation:	SLAM Lidar Navigation (+/- 1 cm)
Dimensions:	1,700 mm x 800 mm x 1,721 mm (L x B x H) without pillar Signal pillar: standard height 2,236 mm
Weight:	400 kg
Lifting height:	800 mm
Turning circle diameter:	1,750 mm or 1,870 mm with Euro pallet
Drive technology:	Omnidirectional
Fork height:	87 mm
Fork length:	1,200 mm

Melkus Mechatronic

The flexible Pallet AGV for intralogistics

Melkus HLG120

Flexible

- ▪ "Multi-Differential Steering" enables use in the tightest space
- ▪ Free range of motion in all directions ▪ SLAM navigation
- ▪ Operation and diagnostics also with smart devices ▪ Easy integration into existing systems (REST API, MQTT, VDA 5050)

Intelligent

- ▪ High personnel safety via four 275° laser scanners ▪ Compact automation solution from SIGMATEK ▪ WLAN communication with the guidance system ▪ Gentle material transport and low floor wear via smart drive technology ▪ Flexible task creation

Efficient

- ▪ Reduced path via transverse drive capability ▪ Free standing lifting forks facilitate load handling ▪ LiFePo4 high performance power-packs with battery capacity of 2x 1.8 kWh ▪ Always ready for use via innovative wireless charging technology ▪ No wear of the charging contacts ▪ Energy efficiency via low net weight

Application areas

- ▪ Point-to-point transport ▪ Transport tasks in limited space conditions ▪ Material and workpiece transport in the production area ▪ Storage logistics and commissioning tasks

Features

- ▪ 4.3" touch panel ▪ LED status display in cover and laser pillar Safety light with arrow projection ▪ Laser-supported pallet detection

Optional accessories

- ▪ Load-supporting bar ▪ 2 additional batteries ▪ Mounting of further sensors on request (barcode scanner, 3D camera etc.)