

# Melkus Mechatronic



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## Small loads, efficiently stacked!

The compact and flexible AGV for electronics manufacturing.

## Melkus Rack Stacker BLS4060

Optimised for PCB magazine and Euro-box transport, the dynamic small AGV Melkus Rack Stacker BLS4060 is tailored to the requirements of electronics or precision mechanics production.

Thanks to its extremely compact design, it is used in production environments where space is at a premium and efficiently supports production processes.

Its innovative lift system enables it to flexibly transfer transport goods to transfer stations at different heights. Its integrated conveyor belt system facilitates precise and efficient transfers, ideal for seamless integration into production and assembly processes.

### Perfect for small spaces

Ultra-compact design, maneuverable and space-saving

### Versatile in use

Transports PCB magazines & Euro containers  
(600 x 400 mm)

### Efficient handover

Conveyor belt with RFID reader for precise load carrier identification

### Adjustable height

Lift attachment for handovers  
from 320 to 1,800 mm

### Maximum availability

For continuous intralogistics

# Dynamic small AGV

## AGV for maximum flexibility in confined spaces in production environments

### Compact design

With its 719 x 677 mm footprint and a tight turning radius, the Melkus Rack Stacker is ideally suited for use in confined spaces.

### Optimised for specific loads

Designed to transport standardised PCB magazines and Euro-boxes with up to 400 x 600 mm, the vehicle fulfils specific requirements in electronics and precision mechanics production.

### Flexible lift

The AGV's lift is continuously height-adjustable for load transfers at heights between 320 and 1800 mm.

### Conveyor belt load transfer

The 719 mm conveyor belt ensures precise transfer to various stations.

### Clamping

Continuously adjustable clamping jaws ensure guided loading and unloading as well as safe transport of the load.

### Compatibility

Its overall height of 1,950 mm allows the Melkus Rack Stacker to pass standard doors.

### Precision and safety

LIDAR scanners with SLAM technology ensure precise navigation and the reliable protection of people and objects.

### Efficient energy supply

The LiFePO4 battery ensures up to eight hours of continuous operation.

### Minimal maintenance requirements

High-quality, durable components and the AGV's modular design reduce maintenance costs and downtimes.

### In-house Software design

The in-house vehicle software optimises operating processes and increases efficiency in the production environment

### Intelligent load recognition

An optionally integrated RFID scanner automatically identifies transported goods and enables precise transfer to and from the defined stations.

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[www.melkus-mechatronic.com](http://www.melkus-mechatronic.com)



## Technical Characteristics

- Dimensions L x W x H: 719 x 677 x 1,950 mm
- Rotating circle: 812 mm
- Conveyor belt length: 719 mm
- Max. Load capacity: 30 kg
- Mass (empty): ca.115 kg
- Max speed: 1,5 m/s
- Max Transport container dimensions: 600 x 400 mm
- Clamping range: 290 – 430 mm
- Load pick-up: On either side
- Lifting positions top edge conveyor belt to floor: 320-1800 mm, continuous
- Min ground clearance: 10 mm
- Charging technology: Contacts
- Battery technology: LiFePO4
- Navigation: SLAM LIDAR Navigation
- Safety: 360 degrees functional safety
- Drive concept: Differential steering
- ESD compliant
- Direct operability via integrated touch panel
- Communication: WiFi
- Compatibility: VDA5050
- Option: RFID reader on the clamping jaws