



SMT Type AGV with 50kg Load Capacity Mecanum Wheel Drive and Laser Guidance for PCB Material Transport

Our Product Introduction

Basic Information

- Place of Origin: GUANGZHOU
- Brand Name: TIANYUE
- Certification: 3c.ce
- Model Number: TY-FB-SMT-50
- Minimum Order Quantity: 1
- Packaging Details: wooden box
- Delivery Time: 50 work days
- Payment Terms: T/T
- Supply Ability: 100



Product Specification

- Motor Way: Servo Motor
- Drive Mode: Mecanum Wheel
- Docking Mod: Conveyor
- Size: Customization
- Power Supply: Lithium Iron Phosphate
- Appearance: Customization
- Load Weight: 50kg
- Application: SMT
- Highlight: **Omnidirectional AGV Automated Guided Vehicle**
, 50KG Load AGV Automated Guided Vehicle



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Product Description

AGV Automated Guided Vehicle - Omnidirectional Double-Conveying SMT Type

This advanced AGV (Automated Guided Vehicle) features omnidirectional double-conveying capability specifically designed for SMT (Surface Mount Technology) material handling. With a load capacity of 30-50KG, it efficiently transports PCB material frames between loading and unloading stations.



Technical Specifications

Parameter	Specification
Product Name	Dual-Belt Conveyor SMT Type AGV
Product Dimensions	Length X × Width X × Height X mm (custom design)
Product Color	Customer specified color plate
Load Mode	Dual-station docking for SMT machine integration
Load Capacity	50kg (ground friction coefficient ≥ 0.5)
Control Mode	Customizable per customer requirements
Guidance Mode	Laser guidance
Driving Directions	Forward, Backward, Left Turn, Right Turn, Divergence, Lateral Move, Horizontal Move
Communication Mode	Customizable per customer requirements
Driving Mode	Mecanum wheel drive
Drive Power Supply	DC 48V
Traveling Speed	Straight: 0-40m/min, Turn: 0-20m/min
Turning Radius	≥ 800 mm
Allowable Floor Flatness	≤ 5 mm

Operating Mode	24-hour continuous operation
Climbing Ability	≤3%
Charging Mode	Online charging (side charging)
Obstacle Sensor Safety Range	Detection distance ≤3m (adjustable), Sensor angle ≤270° (adjustable), Emergency braking < 20mm
Safety Protection	Front obstacle detection + dual safety edge anti-collision + emergency stop switch
Alarm Forms	Sound and light alarm
Working Noise	Normal operation < 70dB(A)
Battery	48V 60Ah lithium battery
Design Life	>10 years



Key Applications

This AGV system transports PCB material frames to designated loading/unloading machines, enabling efficient recycling of empty PCB material frames and transportation of full material frames. The system provides high flexibility and is integrated with intelligent logistics scheduling and ERP systems to facilitate intelligent distribution, turnover, and warehousing operations for parts, semi-finished products, and finished goods.

System Integration Benefits

- Omnidirectional movement capability for maximum flexibility
- Intelligent logistics scheduling system integration
- ERP system connectivity for comprehensive operational management
- 24/7 continuous operation capability
- Advanced safety features for reliable performance





HIGH QUALITY



EASY OPERATION



AFTER-SALES SERVICE



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