

Wiiss Product Series

Build a smart logistics system for manufacturing factories



Full range of hardware devices

Latent Lifting AMR



Forklift AMR



Warehouse equipment



Other equipment



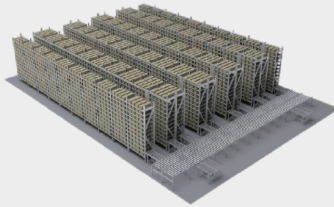
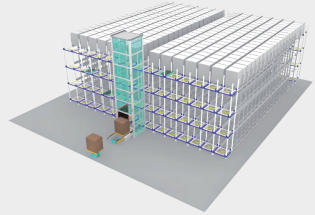
Latent Lifting AMR

Product model								
		YK-50-L	YK-100-L	YK-400-L	YK-600-L	YK-1000-L	YK-1500-L	YK-2000-L
Basic Parameters	Navigation Method	QR Code	QR Code/LSLAM	QR Code/LSLAM	QR Code/LSLAM	QR Code/LSLAM	QR Code	QR Code/LSLAM
	Overall Dimensions (mm)	650*450*380	650*460*288	780*545*300	950*650*250	1150*820*254	1150*820*254	1523*1150*317
	Turning Diameter (mm)	680	683	820	995	1200	1200	1780
	Chassis Ground Clearance (mm)	15	15	30	25	25	25	25
	Lifting Platform Size (mm)	Pure Tooth Type	580*400	724*504	850*600	1030*770	1030*770	1250*1000
	Lifting Height (mm)	400	70	60	60	60	60	100
	Lifting Mechanism	Electric Lifting	Electric Lifting	Electric Lifting	Electric Lifting	Electric Lifting	Electric Lifting	Hydraulic Lifting
	Self-weight (kg)	75	70	93	134	172	230	550
	Rated Payload (kg)	50	100	400	600	1000	1500	2000
	Human-Machine Interface	/	/	Touch Screen	Touch Screen	Touch Screen	Touch Screen	Touch Screen
Safety Protection	Forward Protection	Laser	Laser	Laser	Laser	Laser	Laser	Laser
	Rear Protection	Configurable	Configurable	Configurable	Configurable	Configurable	Configurable	Configurable
	Side Protection	Configurable	/	Configurable	Configurable	Configurable	Configurable	Configurable
	Audible and Visual Alarm	Equipped	Equipped	Equipped	Equipped	Equipped	Equipped	Equipped
	Laser Width Indicator	Configurable	/	Configurable	Configurable	Configurable	Configurable	Configurable
	Bumper Detection	Equipped	Equipped	Equipped	Equipped	Equipped	Equipped	Equipped
	Emergency Stop Button	Equipped	Equipped	Equipped	Equipped	Equipped	Equipped	Equipped
Motion Performance	Rated Travel Speed (Unloaded) (mm/s)	4000	2500	2000	2000	2000	2000	940
	Rated Acceleration (Unloaded) (mm/s ²)	2000	1200	800	1200	1000	1000	500
	Positioning Accuracy (mm)(°)	±10/±1	±10/±1	±10/±1	±10/±1	±10/±1	±10/±1	±10/±1
Battery Performance	Operating Time Under Rated Conditions (h)	4-6	4-6	8	8	8	8	8
	Charging Time After Full Discharge (h)	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5

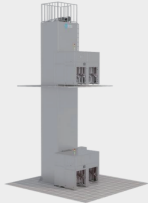
Forklift AMR

Product model								
		YK-1000-F(1.3m)	YK-1000-F(2m)	YK-1000-F(3m)	YK-1500-F(1.3m)	YK-2000-F(1.5m)	YK-2000-F(3m)	YK-2000-F(4.5m)
Basic Parameters	Overall Dimensions (l1*b1*h1) (mm)	1654*990*1990	1653*990*1984	1653*990*2434	1653*990*1984	1867*996*2161	1867*996*2161	1867*996*2161
	Self-weight (Including Battery) (kg)	616	704	750	616	950	1150	1350
	Rated Payload (kg)	1000	1000	1000	1500	2000	2000	2000
	Load Center Distance (C) (mm)	600	600	600	600	600	600	600
	Lifting Height (h3+h13) (mm)	1300	2000	3000	1300	1500	3000	4500
	Fork Height Above Ground After Lowering (h13) (mm)	81	81	81	81	89	89	89
	Fork Dimensions (s/e/l) (mm)	65/160/1200	65/160/1200	65/160/1200	65/180/1200	70/200/1200	70/200/1200	70/200/1200
	Fork Outer Width (b5) (mm)	620	620	620	620	640	660	660
	Applicable Pallet Size (mm)	1000*1200	1000*1200	1000*1200	1000*1200	1000*1200	1000*1200	1000*1200
Motion Performance	Rated Travel Speed (Unloaded) (m/s)	1.2	1.2	1.2	1.2	1.5	1.5	1.5
	Positioning Accuracy (mm)(°)	±10/±1	±10/±1	±10/±1	±10/±1	±10/±1	±10/±1	±10/±1
	Minimum Turning Radius (Wa) (mm)	1186	1198	1198	1198	1385	1385	1385
	Motion Mode	Forward; Backward; Arc; In-situ Rotation	Forward; Backward; Arc; In-situ Rotation	Forward; Backward; Arc; In-situ Rotation	Forward; Backward; Arc; In-situ Rotation	Forward; Backward; Arc; In-situ Rotation	Forward; Backward; Arc; In-situ Rotation	Forward; Backward; Arc; In-situ Rotation
	Minimum Aisle Width (Ast) (mm)	2181	2181	2181	2181	2387	2387	2387
Battery Performance	Operating Time Under Rated Conditions (h)	6-8	6-8	6-8	6-8	6-8	6-8	6-8
	Charging Time After Full Discharge (h)	≤ 2	≤ 2	≤ 2	≤ 2	2-3	2-3	2-3
Safety Configuration	Laser Obstacle Avoidance	Equipped	Equipped	Equipped	Equipped	Equipped	Equipped	Equipped
	Driving Recorder	Optional	Optional	Optional	Optional	Optional	Optional	Optional
	Bumper Detection	Equipped	Equipped	Equipped	Equipped	Equipped	Equipped	Equipped
	Pallet In-position Detection	Equipped	Equipped	Equipped	Equipped	Equipped	Equipped	Equipped
	Fork Collision Detection	Equipped	Equipped	Equipped	Equipped	Equipped	Equipped	Equipped
	Emergency Stop Button	Equipped	Equipped	Equipped	Equipped	Equipped	Equipped	Equipped
	Warning Light	Equipped	Equipped	Equipped	Equipped	Equipped	Equipped	Equipped
	Audible and Visual Alarm	Equipped	Equipped	Equipped	Equipped	Equipped	Equipped	Equipped
Other Functions	Human-Machine Interface	Touch Screen	Touch Screen	Touch Screen	Touch Screen	Touch Screen	Touch Screen	Touch Screen
	Navigation Method	2D/3D LSLAM	2D/3D LSLAM	2D/3D LSLAM	2D/3D LSLAM	2D/3D LSLAM	2D/3D LSLAM	2D/3D LSLAM
	Customized Forks	Supported	Supported	Supported	Supported	Supported	Supported	Supported
	Pallet Posture Recognition	Equipped	Equipped	Equipped	Equipped	Equipped	Equipped	Equipped
	Pallet Binding Recognition	Optional	Optional	Optional	Optional	Optional	Optional	Optional

Warehouse equipment

Product Type				
	Stocker	Semiconductor stocker	Mini-load ASRS	4-way shuttle dense storage system
Product Overview	The clean intelligent line-side warehouse is a clean-environment storage device specifically designed for high-end manufacturing, electronics, semiconductor and other industries, meeting the intelligent storage and flow requirements of precision materials alongside the production line	The wafer warehouse is a high-cleanliness intelligent storage system for semiconductors. It uses OHT and overhead tracks for automatic transport of wafer pods. With a constant temperature, humidity, and static-free environment, it ensures safe, stable storage for high-precision materials like wafers	The Mini Load tote stacker crane is a high-density automated storage system designed for high-mix, low-volume material storage, particularly suitable for intelligent management of finished products such as electronic components and precision parts	The 4-way shuttle dense storage system is a high-density storage system centered on four-way shuttles. The shuttles can move freely both horizontally and vertically on the rack rails, enabling ultra-high density, intelligent, and flexible warehouse management
Product Features	● Clean environment ready: FFU installed, supports Class 100-10,000 cleanrooms; anti-corrosion & fireproof materials ensure long-term stability. ● Efficient & flexible docking: Multiple ports for AGVs and carts; shared I/O port boosts turnover efficiency. ● Intelligent operation: Manual/auto barcode scanning for paperless workflows and real-time data collection.	● Clean storage environment: Anti-contamination + constant temp/humidity ensures wafer stability. ● Automated handling & storage: Smart transport with fast matching reduces manual intervention. ● High handling efficiency: Move multiple wafer pods at once to boost overall throughput.	● High-precision storage & retrieval: Suitable for high-mix, low-volume handling of finished goods and loose items. ● Strong adaptability: High freeze resistance and impact resistance for various complex environments. ● High safety: Ensures cargo safety during high-speed storage, reducing damage.	● Ultimate space utilization: No fixed aisles, maximizes space usage for high-density storage. ● Intelligent scheduling algorithm: Multi-shuttle collaborative operation with parallel storage/retrieval, significantly reducing wait times. ● High flexibility & scalability: Adjust number of shuttles based on storage needs; highly elastic system.

Other equipment

Product Type				
	Loader	Non-powered NTB	Powered NTB	Lift
Product Overview	The board loading/unloading machine is a key connecting device in smart production lines. It supports automatic feeding and collection of boards and totes, and seamlessly interfaces with WMS/MCS systems, enabling full-process data traceability.	The non-powered line-side single cell is a lightweight material buffer and transfer device designed specifically for production line stations. It serves as a key buffer node in automated logistics systems, effectively ensuring smooth material flow on the production line.	The powered line-side single cell is an intelligent material buffer and flow unit located alongside the production line. It can work collaboratively with mobile carriers and robots to optimize material supply rhythm and reduce line waiting time.	The vertical lift is a core vertical conveying device in intelligent logistics systems. Featuring a reciprocating structure, it is specifically designed for automated cross-floor material transport. Through automatic docking ports, it seamlessly connects with AMRs, conveyors, hand trucks, and other equipment.
Product Features	● Full-process data traceability: Integrates with WMS/MCS for real-time collection and traceability of material flow data. ● Multi-device compatibility: Supports AMRs, hand trucks, boxes, racks, trays, etc.; dual inlet design improves efficiency. ● Smart counting: Integrated QR code recognition and automatic counting reduces human errors.	● Flexible adaptation to line rhythm: Can be placed at any workstation, seamlessly bridging manual and automated operations. ● Efficient space utilization: Compact design with minimal footprint, maximizes use of line-side space and improves layout efficiency.	● Flexible collaboration: Supports integration with tote stacker cranes, tote-handling robots, and other equipment to adapt to diverse production line needs. ● Efficient material flow: Reduces carrier movement frequency and loading/unloading time, improving overall line efficiency.	● Intelligent integration: Supports collaboration with AMR and RCS systems to automate material transport processes. ● Precision & efficiency: Fast lifting speed ensures rapid material flow.