THE MOST INTELLIGENT
Autonomous Forklift

Through the leading multi-sensor fusion technology and computer vision, Apex precisely and intelligently handles pallets in various warehousing, logistics, and manufacturing scenarios.

Apex C1500-L

Safer

- High operational accuracy with SLAM navigation + visual recognition.

- 360° obstacle detection and avoidance reduces the risk of accidents and ensures the safety of workers, goods, and vehicles.

More Efficient

- Capable of continuous operation at increased efficiency.

- Strong navigation and positioning capability to ensure 60 mm (2.3 in) pallet placement precision.

- Can identify the angle at which a pallet is placed and adjust autonomously in real-time.

More Applicable

- Suitable for GMA pallet docking, Apex C1500-L supports more factory and warehouse scenarios.

- Covers the full storage process and effectively supports your Point-to-Point transport.

Apex C1500-L
Autonomous Forklift
Workflows and Processes
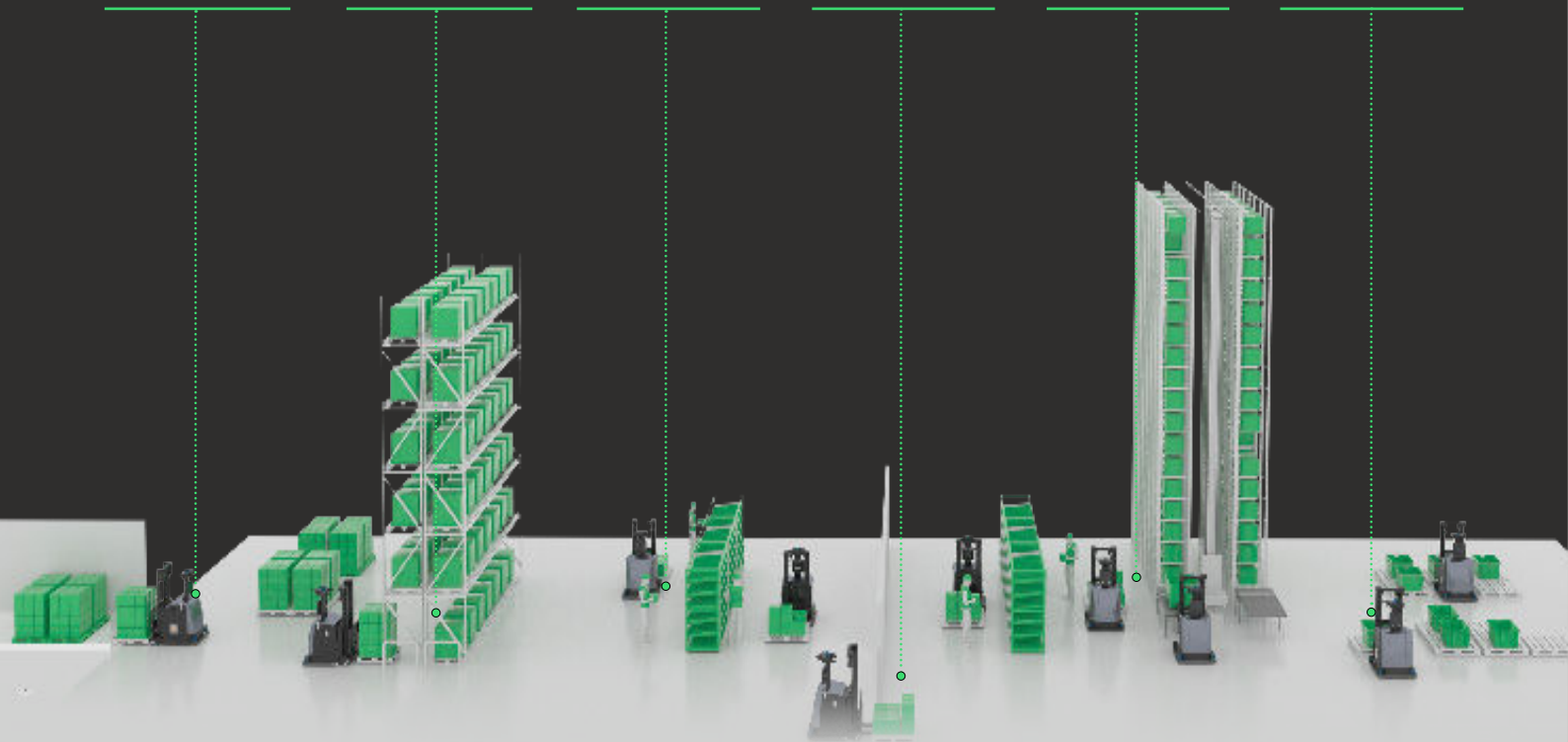

Receiving

Putaway

Restock

Crosszone Handling

Conveyor Docking

Outbound

Customer Value

Improve Work Efficiency	Autonomous round the clock operations allows employees to focus on value-added tasks, significantly improving production efficiency.
Keep Workers Safe	Computer vision-based perception guarantees the safety of everyone involved.
Reduce Costs	Reducing forklift operating costs and increasing worker productivity leads to a quick ROI.

Datasheet

Apex C1500-L

Dimensions		
	Length	2,450 mm (94.65 in)
	Width	1,112 mm (43.77 in)
	Height	2,200 mm (86.61 in)
	Turning Radius	1,350 mm (53.14 in)
	Travel Speed	1.5 m/s (3.4 mph)
	Wheelbase	1,000 mm (39.37 in)
	Ground Clearance	70 mm (2.75 in)

Capacity		
	Weight	2,700 kg (5,952 lbs)
	Max. Load Capacity	1,500 kg (3,306 lbs)

Function		
	Lift	3,000 mm (118.11 in)
	Fork Carriage Width	460/560/680 mm (18.11/22.04/26.77 in)
	Fork Carriage Connection class	2A
	Lift Speed Laden/Unladen	100/150 mm/s (3.93/5.90 in/s)
	Lowering Speed Laden/Unladen	150/100 mm/s (5.90/3.93 in/s)
	Load Centre Distance	500 mm (19.68 in)
	Load Distance, Centre Of Drive Axle To Fork	133 mm (5.23 in)
	Height With Extension	3,935 mm (154.92 in)
	Aisle Width (Pallet 1000x1200 Sideways)	2,800 mm (110.23 in)

Performance		
	Navigation Mode	Road Network
	Positioning Mode	Laser SLAM/Visual Tag/Visual Semantics

Communication		
	Wi-Fi (IEEE 802.11a/b/g/n/ac)	Yes
	Wi-Fi (IEEE 802.11ax)	Optional
	Cellular Network (Public 4G/5G)	Optional
	Cellular Network (Private LTE)	Optional

Power		
	Endurance	~8 hrs per charge
	Battery Type	Li-LFP
	Charging Mode	DC CC-CV

Sensors		
	LiDAR	Yes
	UWA Cameras (front)	Yes
	UWA Cameras (side)	Yes
	3D Cameras	Yes
	Odometer	Yes
	IMU	Yes

Safety		
	Safety Contact Edge	1
	Fork Safety Sensor	Yes
	Emergency Stop Button	2 (front)

Better Performance Better Value

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