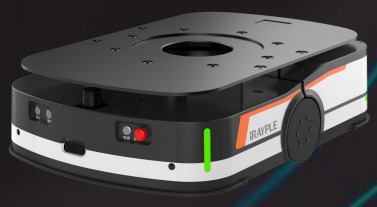
iRAYPLE

Latent AMR

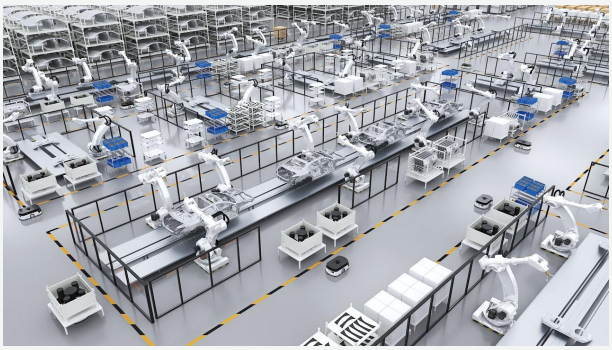
C100F Series

The C100F latent AMR utilizes a modular design concept with streamlined product interior, improved product robustness, easy operation & maintenance. The product is equipped with 360° laser protection to ensure safer and more reliable human-machine interaction.

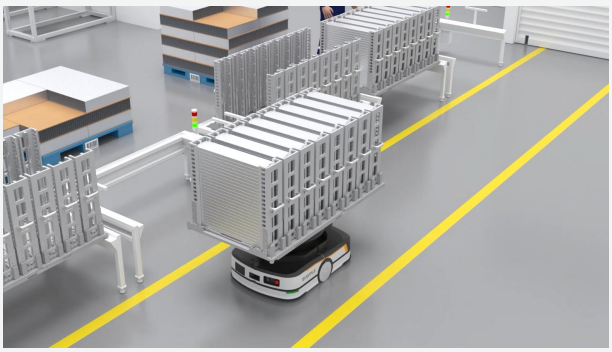


Applications

3C Warehousing & Material Handling



Automotive Parts Handling



Raw Material Handling of EV Battery

PV Cell Handling

Zhejiang HuaRay Technology Co., Ltd.

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Features

Hybrid Navigation

- Multiple navigation: Laser SLAM, QR code, Texture
- Different navigation methods can be used at the same site

Fast Battery Switch

- Rapid battery replacement in 65 seconds. No need for charging wait time

High Safety & High Reliability

- Hybrid laser and vision, realize 360° stereo-obstacle avoidance
- Detection of obstacles as low as 1cm
- Configure indicator light, realize alarm in advance

Intelligent Recognition

- Recognizing the angle of the carrier and planning the pick-up path autonomously
- Adaptation to the environment and autonomous obstacle avoidance

Parameters

Product model	RTA-C100-LQ-2L1T-E-410	
Basic parameters	Navigation	Laser / QR code / Texture
	Dimensions L*W*H (mm)	950*650*250
	Rotation diameter (mm)	1000
	Lifting height (mm)	60
	Laser navigation height (mm)	203
	Lifting plate size (mm)	900*560
	Rated load (kg)	1000
	Drive mode	Two-wheel differential
Security protection	Obstacle avoidance	Front and rear laser + Front TOF
	Obstacle avoidance angle (°)	360
	Marker lights	Standard
	Collision detection	Standard
	Sound and light alarm	Standard
Athletic performance	Max. no-load speed (m/s)	1.5
	Max. full-load speed (m/s)	1
	Stop position accuracy (mm)	±10
	Moving direction	Forward and backward + Rotate in place
Battery performance	Battery life cycle	1500
	Running time (h)	8
	Charging time (h)	2

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