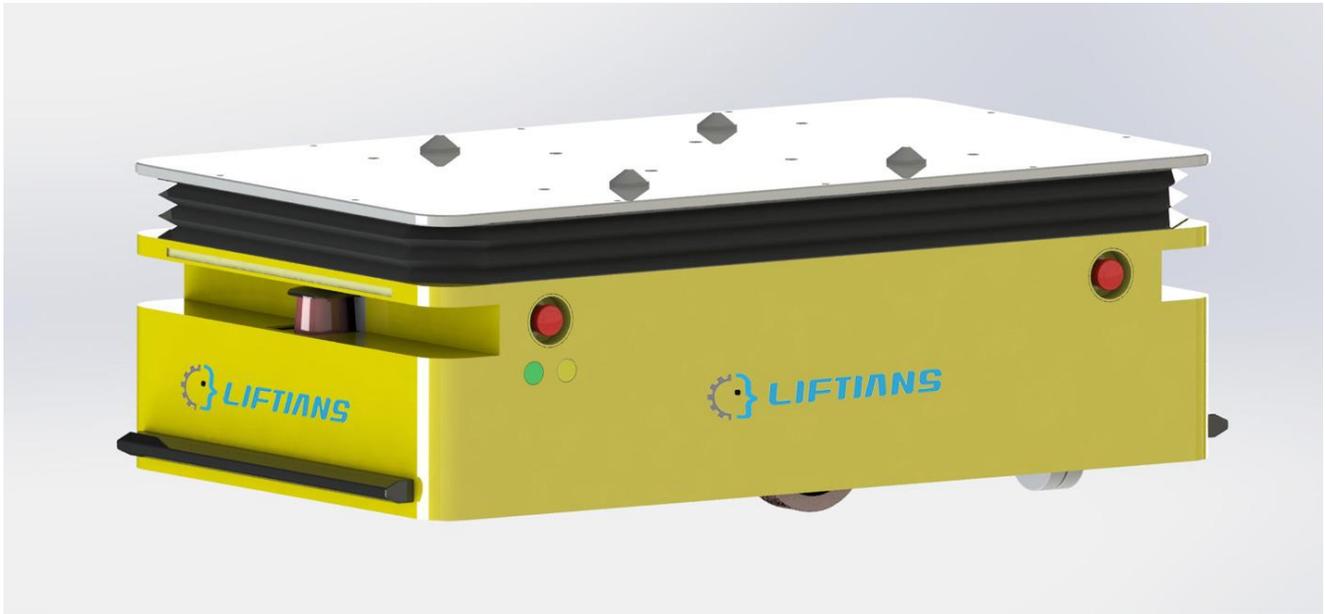




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Latent Lifting Robot LL1000S

INS + Lidar Slam Navigation + 1000kg loading



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Product feature

1. LL1000S latent Lifting AGV is a Lidar slam navigation and moving robot independently developed by Liftians Robotics.

2. Product support flexible customization: meet the customer's function expansion according to the customer's request, make the product operation more flexible and better meet the needs of customers.

3. Equipped with lidar slam + inertial navigation, easy deployment, flexible route and flexible obstacle avoidance.

4. The carrying capacity is 1000kg, and most of the goods can be handled and transported by lifting and rotating.

5. The product runs stably and efficiently with a max unloading running speed of 1.7m/s

6. Intelligent power management: preset multi-level power threshold, and charge autonomously below the threshold.

7. The maximum battery capacity of the product can meet 40ah, and the battery configuration and design with large capacity can improve the endurance of the product.

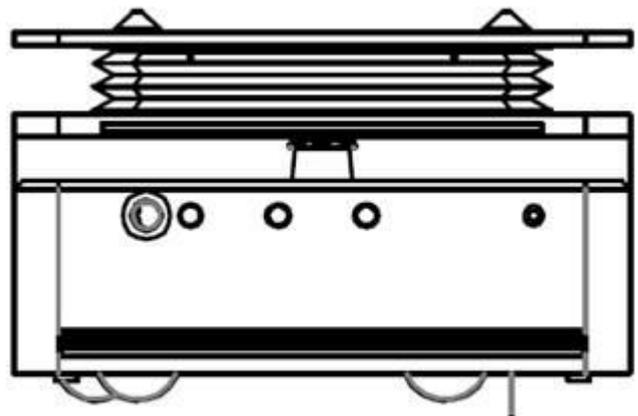
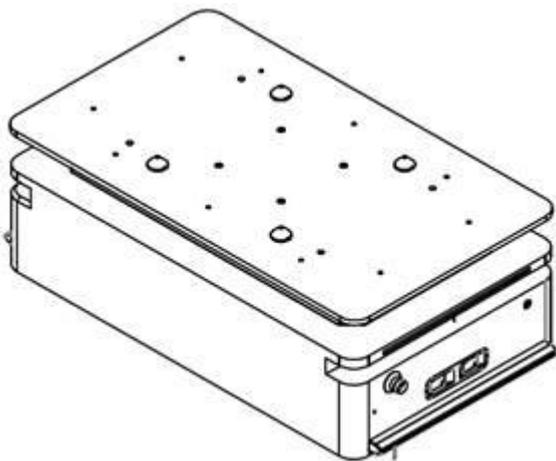
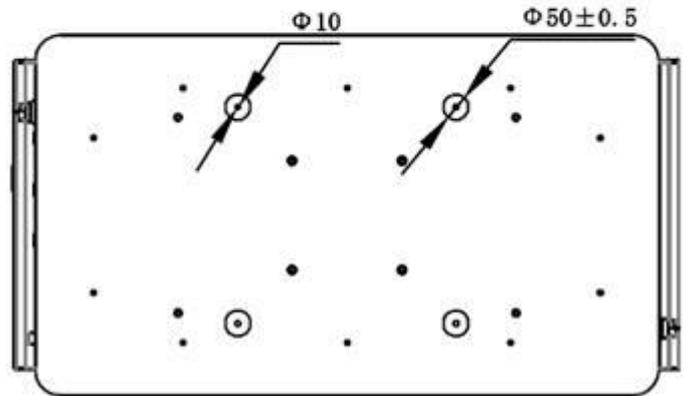
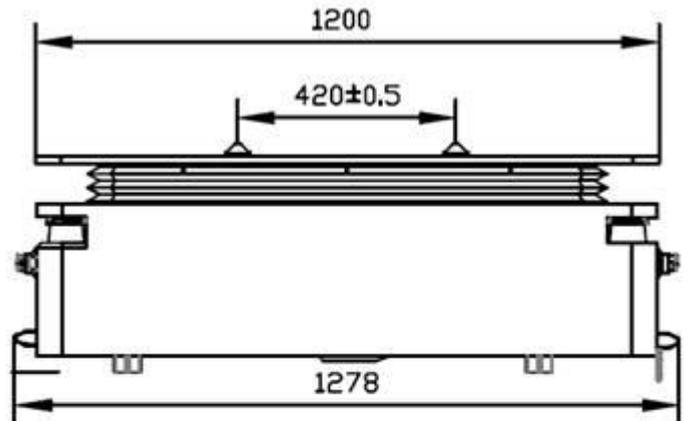
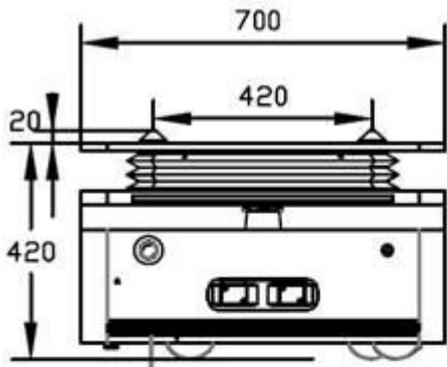
8. The product is based on inertial navigation, equipped with Lidar slam navigation, and the navigation accuracy can reach ± 10 mm.

9. Cluster scheduling, in the robot control system, you can view the working status, electricity, location and other information of all robots at the same time.

Dispatch and manage all equipment through the system.

10. Equipped with lidar to avoid obstacles, front contact anti-collision strip, left and right emergency stop buttons to protect equipment and goods safety.

Dimensions



Specifications

	Name	Latent jacking AGV
Basic Specifications	Model	LL1000S
	Rated load (kg)	1000KG
	Self weight (kg)	260(±10KG)
	Positioning accuracy (mm)	+ 10mm
	Jacking height (mm)	60mm
	Dimension (L * w * h) mm	1280 * 800 * 420mm (excluding anti-collision strip)
	Navigation mode	Laser slam navigation
	Performance	Driving mode
control mode		Manual / automatic
Form of motion		Horizontal linear motion
Unloading max Operating speed		1.7m/s
Full load Operating speed		0.8m/s
Jacking time		< 10s
Orientation accuracy		±0.5°
Acceleration time (no load)		3S
Acceleration time (full load)		5S
Body rotation speed (90 degrees)		< 1.5s
Body rotation speed (180 degrees)	< 3/s	
Battery	Driving voltage (V)	DC48V
	Battery capacity	40AH
	Battery type	Lithium iron phosphate
	Battery life	1500 cycles, capacity ≥ 80%
	Endurance time	More than 8h
	Charging time	≤1.5h
	Charging mode (optional)	Off line charging / automatic charging
Safety Protection	Anti-collision mode	Lidar obstacle avoidance
		Ultrasonic obstacle avoidance / infrared obstacle avoidance
		Front and rear crash strips to avoid obstacles
	Emergency stop	Front and rear emergency stop buttons

Application Scenarios



Use and Precautions

1. Only use Liftians chargers
2. Prohibit unauthorized personnel around the work area
3. In case of abnormal noise / vibration / errant response, immediately stop using and notify Liftians for repair
4. The charging system shall be placed in a dry / ventilated / dust-free environment