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Standard Chassis LL300S

INS + Lidar SLAM + 300kg load + support upper expansion



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Product Features

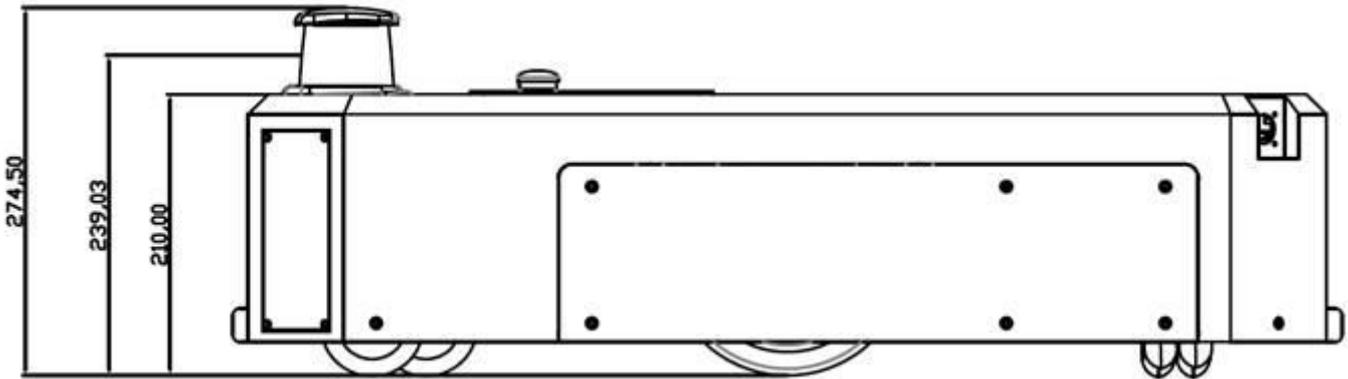
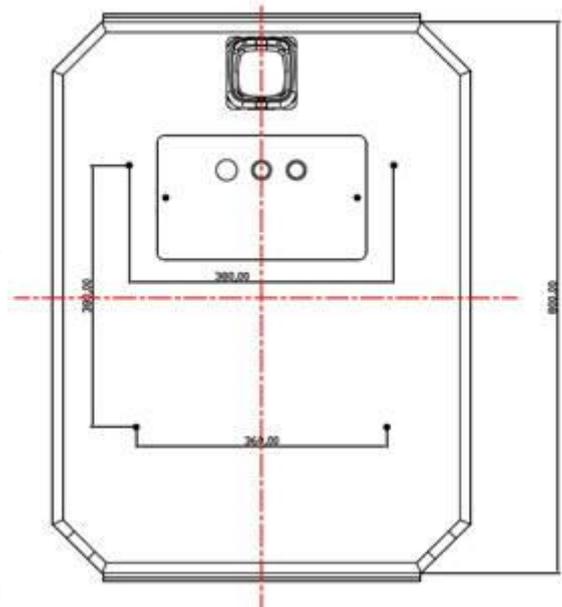
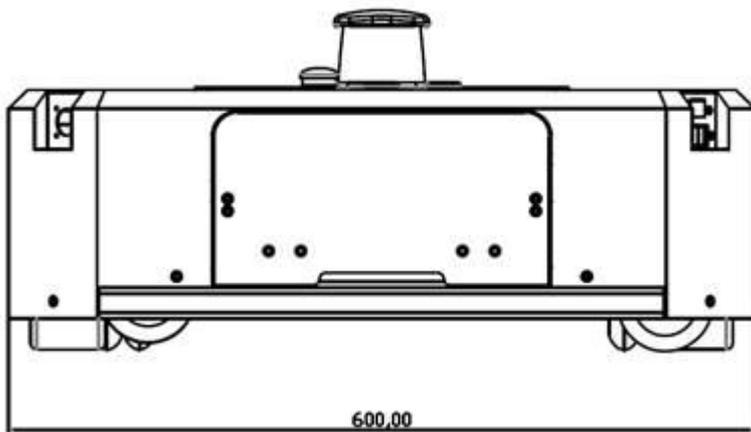
1. The LL300S latent lifting AGV is a Lidar SLAM navigation and handling robot independently developed by Liftians Inc.
2. Equipped with front and rear dual laser SLAM + inertial navigation, convenient deployment, flexible route and flexible obstacle avoidance.
3. Carrying capacity is 300kg.
4. Intelligent power management: preset multi-level power threshold, and charge autonomously if it is lower than the threshold.
5. The product is based on Lidar SLAM navigation, assisted by inertial navigation, with navigation accuracy of ± 10 mm
6. Cluster scheduling in the robot control system allows viewing work status, charge level, location and other information of all robots at the same time, and all devices may be scheduled through this.
7. Robots are equipped with lidar safety barrier avoidance, front contact anti-collision bar, left and right emergency stop buttons, and multiple mechanisms to ensure equipment and cargo safety.



LIFTIANS

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Dimensions



Specification

Basic Specifications	Name	Standard AMB Chassis
	Model	LL300S
	Loading (kg)	300KG
	Self-weight (kg)	180(±10KG)
	Positioning accuracy (mm)	+ 10mm
	Dimension (L * w * h) mm	800 * 600 * 275mm (including lidar height)
	Navigation mode	LIDAR SLAM navigation
Performance	Driving mode	Servo motor / two wheel differential drive
	control mode	Manual / automatic
	Form of motion	Horizontal linear motion
	No load maximum speed	1.7m/s
	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	32AH
	Battery type	Lithium Battery
	Battery life	800 cycles, capacity ≥ 80%
	Endurance time	≥ 8h
	Charging time	≤1.5h
	Battery replace	drawer type
	Charging mode (optional)	Off line charging / automatic charging
Safety Protection	Anti-collision mode	Lidar obstacle avoidance
		Front and rear crash strips to avoid obstacles
	Emergency stop	Emergency stop button

Application Scenarios



Usage 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