



LIFTIANS

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Under Ride Lifting Robot LL500S

INS + Dual lidar slam navigation + 500kg load

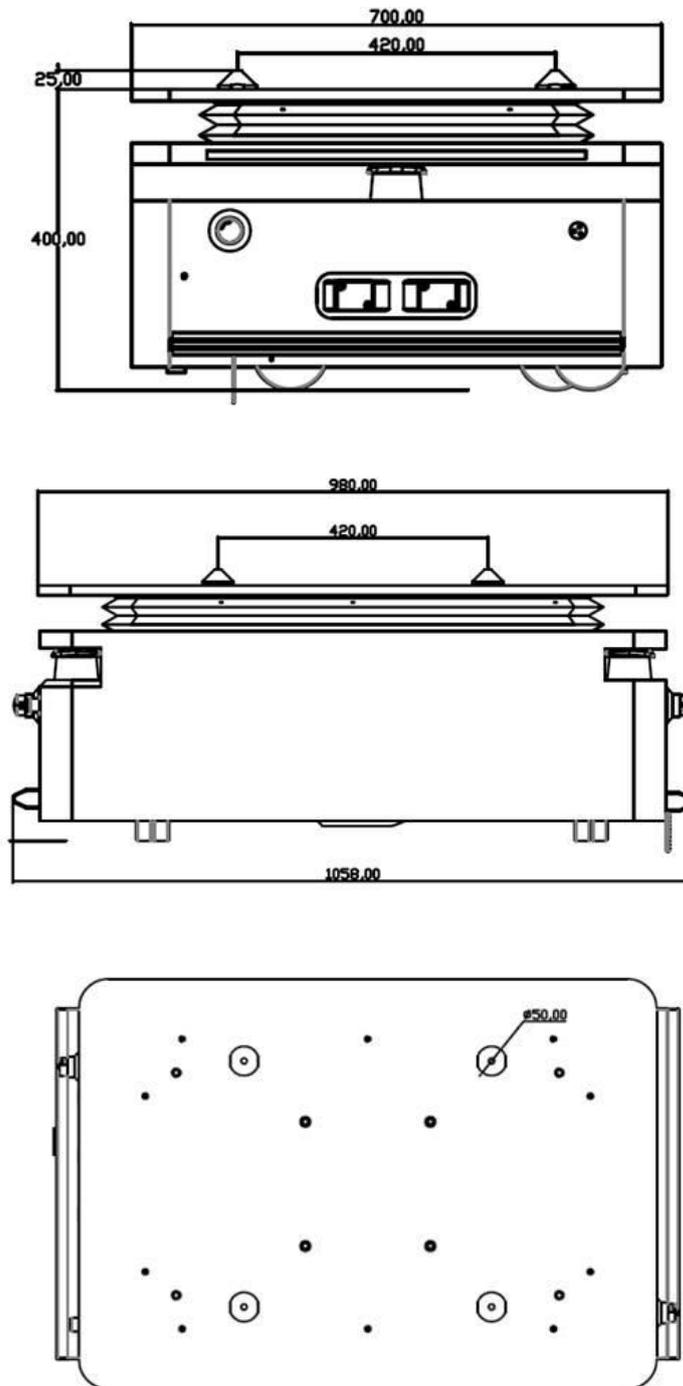


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Product Features

1. The LL500S 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 500kg.
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.

Dimensions



Specifications

	Name	Latent lifting robot
Basic Specifications	Model	LL500S
	Rated load (kg)	500KG
	Self-weight (kg)	220(±10KG)
	Positioning accuracy (mm)	+ 10mm
	Jacking height (mm)	60mm
	Dimension (L * w * h) mm	980 * 700 * 425mm (excluding anti-collision strip)
	Navigation mode	Lidar S navigation
	Performance	Driving mode
Form of motion		Horizontal linear motion
No load maximum speed		1.7m/s
Full load operation speed		1m/s
Jacking time		< 12s
Orientation accuracy		±0.5°
Battery	Driving voltage (V)	DC48V
	Battery capacity	40AH
	Battery type	Lithium iron phosphate
	Battery life	1500 cycles, capacity ≥ 80%
	Endurance time	≥ 8h
	Charging time	≤1.5h
	Charging mode (optional)	Off line charging / automatic charging
Safety Protection	Anti-collision mode	Front and rear lidar obstacle avoidance
		Front and rear anti-crash strips to avoid obstacles
	Emergency stop	Front and rear emergency stop buttons

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