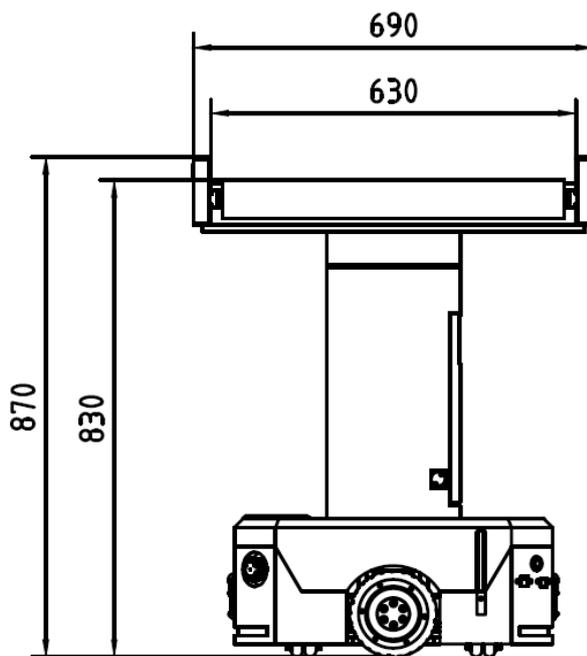440 N. Wolfe Rd.
Sunnyvale, CA 94085
Email: sales@liftians.com
Tel: 408-771-6628
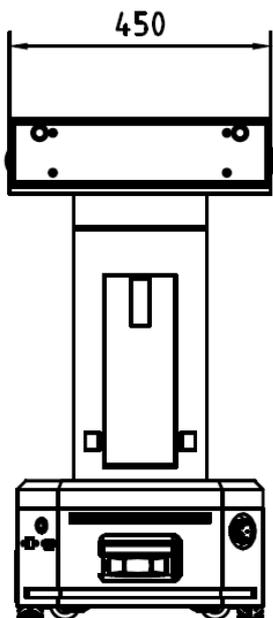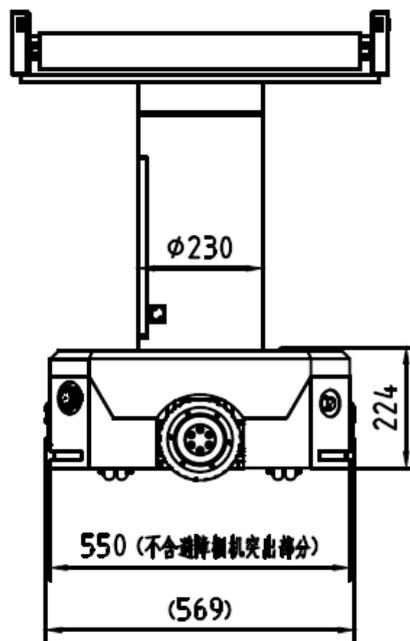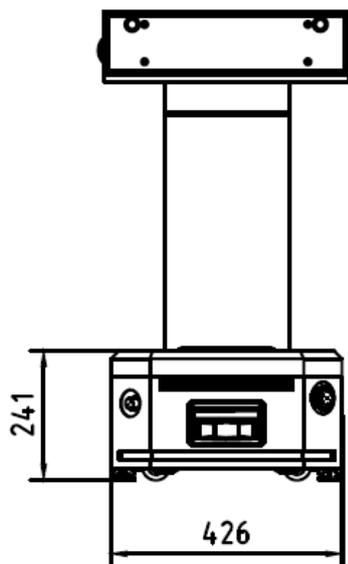**WEB:** www.liftians.com

RollerBelt LB100

INS + QR Code + 50kg load

Product Features

1. The QR code autonomous navigation mode is adopted for rapid deployment. The equipment only needs to scan the environment to build a map and achieve an accurate positioning of ± 10 mm.

2. The load weight can be up to 50kg, suitable for light item transporting.

3. The equipment adopts the modular design of the whole machine, which makes assembly and maintenance more convenient.

4. The battery can last for more than 8 hours with a full load, and the robot can automatically charge with low power (can be set per customer's requirements).

5. 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.

6. 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.

7. With automatic path planning & realized unmanned operation, your staff only need to give instructions through the control terminal.

8. Infrared detection to ensure prober object placement

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Dimensions

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Specifications

Basic Specifications	**NAME**	**RollerBelt AMB**
	MODEL	**LB100**
	Loading	**50KG**
	Self-weight	**120KG（±5KG）**
	Dimension (L * w * h) mm	**L690*W450*H870mm**
	Navigation mode	**Inertia + QR Code**
	Communication Mode	**WIFI**
	Debug interface	**Open interface**
Moving Performance	**Driving mode**	**Servo motor / two-wheel differential drive**
	Positioning accuracy (mm)	**±10mm**
	No load maximum speed	**1.5m/s**
	With load maximum speed	**1m/s**
	Charging mode	**Off line charging / automatic charging**
	Endurance time	**≥8H**
	Max slope	**≤2°**
Battery Performance	**Battery type**	**Lithium battery 48V**
	Battery capacity	**10AH**
	Charging time	**1.5~2H**
	Battery life	**2000 cycles, capacity ≥ 80%**
Security	**Anti-collision mode**	**Front and rear Lidar obstacle avoidance**
	Emergency stop	**Front and rear emergency stop buttons**

Applications

1. Automate loading and unloading of totes and bins from conveyors

2. Flexibility to extend existing workflows

3. Fully controlled via Liftians systems
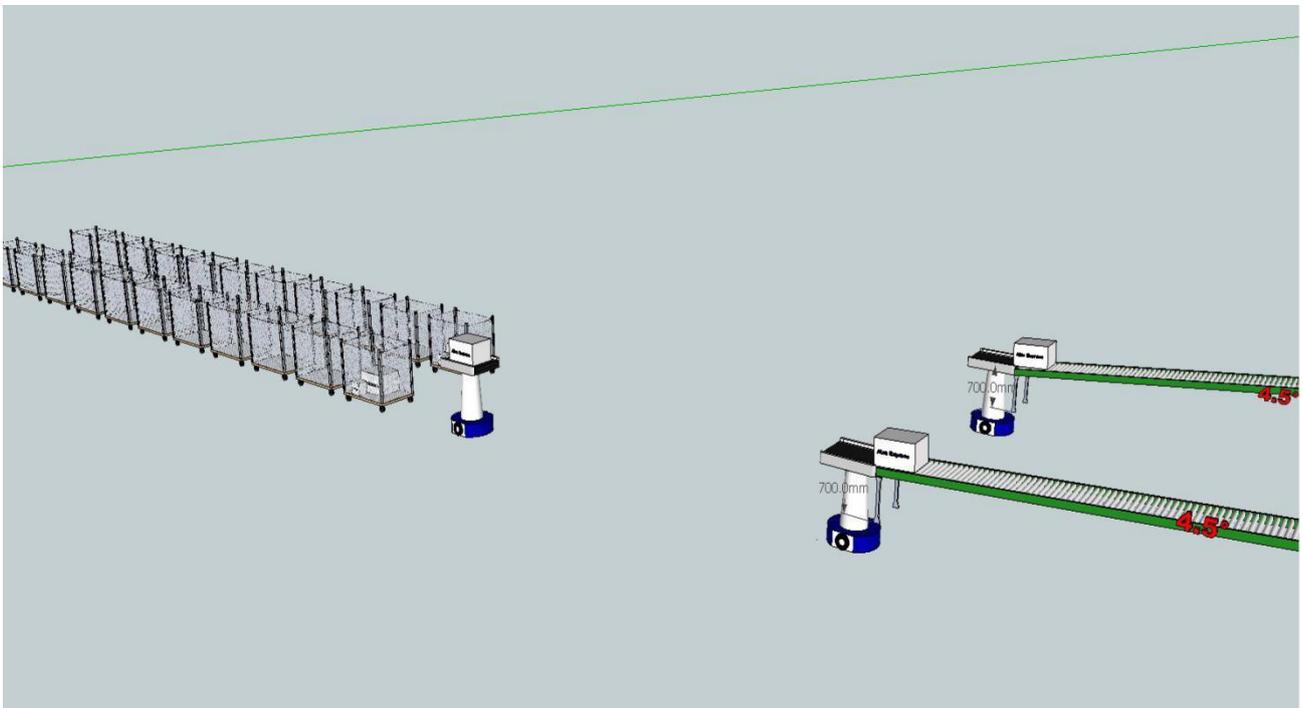
Usage and Precautions

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