

LET'S MOVE IT

**BOWE AUTONOMOUS MOBILE
ROBOTS HELP TO AUTOMATE
AND OPTIMIZE YOUR
INTERNAL TRANSPORT**

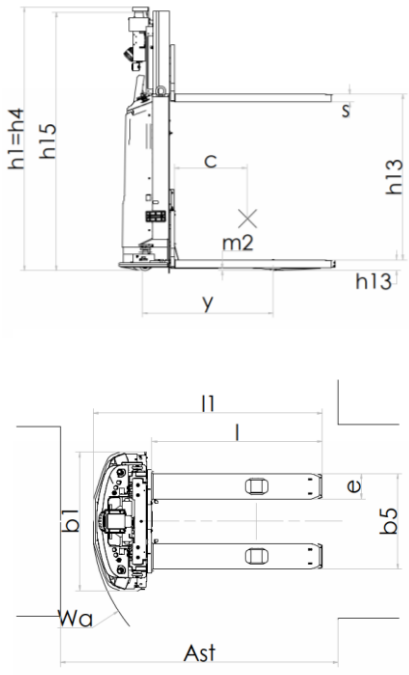
BOWE PALLETBOT



KEY FEATURES

- **3D LiDAR SLAM Navigation:** Reliable operation even in changing environments.
- **3D Object Detection:** Enables autonomous pallet picking in brownfield environments, with tolerance for pallet rotation up to 10° .
- **Enhanced Safety Design:** Compact operation with max speed of 1.2 m/s.
- **Handles Standard EU Pallets:** Up to 1000 kg, including wood and black plastic pallets.
- **Intelligent Power Management:** Autonomous low-power charging,, maintenance-free lithium battery, safe and pollution-free.

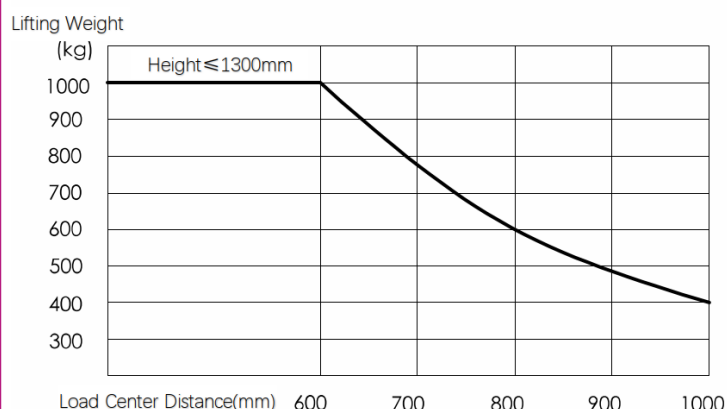
SPECIFICATIONS

General Parameter	Dimension (l1*b1*h1): 1697*1073*1990 mm	
	Weight (Including battery): 713 kg	
	Rated load (Q): 1000 kg	
	Load center distance (C): 600 mm	
	Wheel Base (y): 991.3 mm	
	Max. lifting height (h3+h13): 1331±3 mm	
	Max. gantry height during operation (h4): 1990 mm	
	Fork-ground distance after descending (h13): 81±3 mm	
	Fork Dimension (s/e/l): 65/160/1242 mm	
	Forklift outer width (b5): 530 mm	
	Min. ground clearance (m2): 11 mm	
	Adaptable pallet dimension: 1200*1000 mm	
	Navigation laser scanning height (h15): 1937 mm	
	Min. turning radius (Wa): 1178 mm	
	Min. aisle width (1200*1000 mm pallet): 2052 mm	

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Motion Performance	Operating speed(rated/empty): 1.0/1.2 m/s
	Positioning accuracy: $\pm 10\text{mm}$
	Angle accuracy: $\pm 1^\circ$
	Repeated positioning accuracy: $\pm 10\text{ mm}$
	Max. climbing gradient(rated load/ empty load): 3%/5%
	Fork lifting speed (rated load/ empty load): 100/135 mm/s
	Fork descending speed (rated load/empty load): 130/100 mm/s
Battery	Rated voltage: 48 V
	Capacity: 44 Ah
	Charge cycle: 1500 times (fully discharge & charge)
	Operating time at rated condition: 6~8 h
	Charge time: 2 h
	Charge mode: Charging via contact, on the side of the device
Safety Protection	Risk Prevention is stopping the robot before safety devices require a hard stop
	Bumper strip detection: Available
	Pallet in-position detection: Available
	Fork tip collision detection: Available
	Emergency stop button: Available
	Sound-light alarm: Available
Others	Driving mode Front-wheel driving and turning
	Working noise: <75dB

LOAD CURVE



CHARGER POSITION

