

LilBuddy

THE COMPACT COBOT THAT NEVER QUILTS

FEATURES AND OVERVIEW

LilBuddy autonomous mobile robot (AMR) brings automated movement to any business with its game-changing compact size and flexible natural feature guidance. With a 17" x 17" base, LilBuddy is one of the smallest AMRs in the industry.

TRAFFIC CONTROL

- Natural feature & magnetic tape hybrid guidance (optional)
- Front and rear 2D/3D Lidars for obstacle detection
- Small footprint and turn-in-place ability makes it ideal for congested or narrow areas
- Able to tow loads and drop them off automatically at a given location

SENSORS

- 2 2D/3D Solid State Lidars
- Dual wheel encoders for velocity control and position feedback
- 9-DOF Inertial Measurement Unit
- Vision processing and live-stream video camera (optional)
- Load alignment sensors on cart
- Safety light signals for movement and status alerts



MODULAR DESIGN

- Cart Pin allows for connecting 3rd party & custom LHF's
- Individual components can be replaced easily
- LHF's, work cells or attachments can communicate with LilBuddy wirelessly without a tether - through BotWay



COMMUNICATION PROTOCOLS

- LilBuddy uses Wifi, Bluetooth & Lora technologies (optional)
- LilBuddy communicates via MQTT to BotWay 3rd-party Fleet Managers or IIOT devices directly
- LilBuddy can manually be controlled by a web-based interface.



TECHNICAL SPECIFICATIONS

BATTERY CAPACITY	18 AMP HOURS	WEIGHT (LBS)	50 LBS
OPERATING VOLTAGE	24v DC	TOWING CAPACITY (LBS)	220 LBs
AVG RUNTIME	12 HOURS (NONSTOP)	SIZE (INCHES)	17in x 17in x 12in
2D LIDAR RANGE Includes 2 LIDARs	360 DEGREE TOTAL Up to 39 feet away	3D LIDAR RANGE	60 Degree 315in