Low-Profile Pallet Truck

AB-FLB-PT10-LP

ATOMBOTIX



Autonomous Laser Navigation

Uses Laser SLAM navigation with ±10 mm positioning accuracy and ±0.5° heading accuracy for reliable autonomous operation

Flexible Maneuverability

Features a 900 mm turning radius for maneuvering in confined warehouse and production spaces

Flexible Pallet Compatibility

Supports different pallet types, including three-runner and four-way pallets, with customizable fork dimensions for various handling requirements

Comprehensive Safety Protection

Integrates LiDAR obstacle detection, emergency stop buttons, audible-visual alarms, and hardware fault detection for safer operation

Low-Profile Lifting Design

Features a minimum fork height of 90 mm and a maximum height of 300 mm for low-level pallet lifting and transport

Intelligent Charging Management

Supports automatic and manual charging, with up to 8 hours of operating endurance under specified conditions

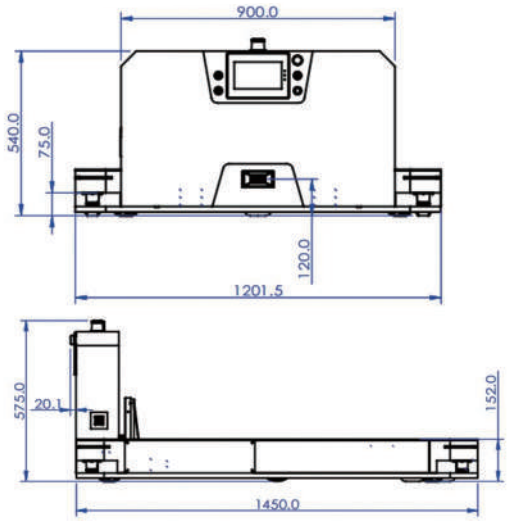
1,000 kg Load Capacity

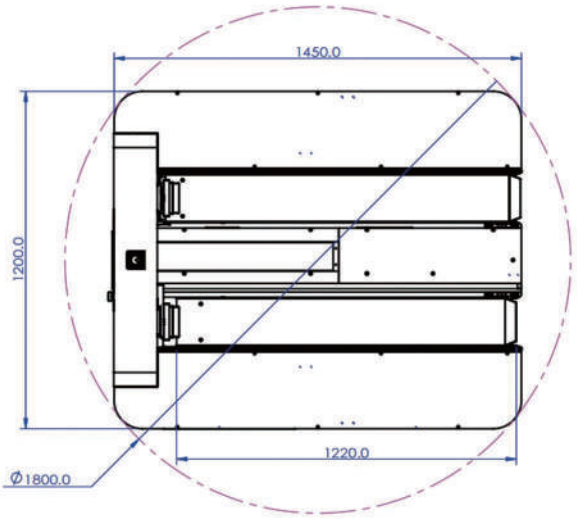
Handles payloads up to 1,000 kg for automated pallet transport and material handling applications

Smart Control & Connectivity

Equipped with an HMI display and Wi-Fi roaming for convenient operation and wireless communication

General Information	Model	AB-FLB-PT10-LP
	Product Name	Low-Profile Pallet Truck
Technical Parameters	Drive Type	Electric
	Operating Mode	Autonomous
	Navigation Method	Laser SLAM
	Compatible Pallet Types	Three-runner and four-way pallets (floor-level handling)
	Rated Load Capacity	≤ 1,000 kg
	Self-weight (Including Battery)	500 kg
	Positioning Accuracy	±10 mm
	Heading Accuracy	±0.5°
	AMR Dimensions (L×W×H)	1450×1200×575 mm
	Turning Radius	900 mm
	Fork Outer Width	610 mm (Customizable)
	Fork Dimensions	1220×166×60 mm (Customizable)
	Fork Surface Height (Lowest Position)	90 mm
	Fork Surface Height (Highest Position)	300 mm
Performance	Travel Speed (No Load/Rated Load)	1.10 m/s
	Passability (Slope/Step/Gap)	≤5% / 5 mm / 30 mm
Battery	Battery Type	Lithium Iron Phosphate ($LiFePO_4$)
	Battery Voltage / Capacity	48 V/36 Ah
	Charging Time (10%–80%)	2 h
	Operating Endurance	8 h
	Charging Mode	Automatic/Manual
	Battery Cycle Life	> 2,000 cycles
Functional Configuration	HMI Display	Standard
	Wi-Fi Roaming	Standard
	Fork Distance Sensor	Standard
	Remote Emergency Stop	Optional
	Pallet Recognition	Optional
	3D Obstacle Avoidance	Optional
	LiDAR Configuration	1 navigation LiDAR + 4 obstacle-avoidance LiDARs
Safety Configuration	Audible and Visual Alarm	Standard
	Emergency Stop Button	Standard
	Vehicle Hardware Fault Detection	Standard
	3D Obstacle Avoidance	Optional
	Anti-Collision Strip	Optional
	Braking Distance (at 1.1 m/s)	≤ 30 cm
Certifications	ISO 3691-4	Customizable
	EMC / ESD	Customizable
	UN38.3	Customizable
	RoHS	Customizable
Other Parameters	IP Rating	IP20
	Noise Level (According to EN 12053)	≤ 70 dB(A)
	Wireless Communication	Wi-Fi 802.11 a/b/g/n/ac
	Operating Temperature	0°C–50°C
	Relative Humidity	10%–90%, non-condensing


900.0
540.0
75.0
120.0
1201.5
575.0
20.1
152.0
1450.0


1450.0
1200.0
1220.0
Ø1800.0