ADDVERB

FlowT 1000

AUTONOMOUS PALLET TRUCK

Addverb's intelligent Autonomous Pallet Truck, transports pallets and trolleys up to 1000 kg from ground to ground within warehouses and manufacturing facilities. It is equipped with LiDAR sensors for navigation and obstacle detection, intelligent computer vision for pallet detection, and equipped with mapping technology that helps it to transport material while detecting obstacles on the go without any human intervention.

Technical Specifications

General Specifications

Payload Capacity	1000 Kg
Overall Dimensions	1807 x 854 x 2013 mm
Fork Dimensions	1220 x 150 x 90 mm
Lifting Stroke	115 mm
Weight	350 Kg
Payload Type	Open Pallets, Trolley, Cages



Speed and Performance

Max. Speed	1.5 m/s
Docking Accuracy	+/- 20 mm
Navigational Accuracy	+/- 50 mm
Min. Aisle Requirement	2200 mm (with 1000 mm width pallet)
Min. Turning Radius	1761 mm

ADDVERB

FlowT 1000

AUTONOMOUS PALLET TRUCK

Technical Specifications

Communication & Integration

Fleet Management Software	Yes
Integration with external conveyor	Yes
Integration with ERP	Yes
Wi-Fi Protocol & Frequency	802.11 a/b/g/n/ac/ax, 2.4 GHz, 5 GHz
5G Network Compatibility	Yes
IP Class	IP20



Safety & Peripherals

Sensors	Navigation 3D LiDAR (1 x Top), Obstacle Detection LiDAR (2 x Bottom), Fork-Tip Sensors (2 x fork-tips), Pallet Detection Sensors (2 x Forks)
Camera	Pallet Detection Camera (1 x Back)
Audio and Visual	LED Indication, Buzzer

ADDVERB

FlowT 1000

AUTONOMOUS PALLET TRUCK

Technical Specifications

Battery

Avg. Battery Run Time	6 ~8 Hours
Battery Specification	LiFePO4, 48V, 100Ah
Charging Time	1.5 Hours (20% – 80%)
Charging Cycles	~2000 cycles, with min. 80% of initial capacity

Accessories

Charging Dock	Fully Automatic Smart Charging Station, Manual Portable Charger
Manual Controller	Teach Pendant



ADDVERB

FlowT 1000

AUTONOMOUS PALLET TRUCK

Key Benefits:

- Auto-localises itself from home position and executes the pre-defined mission without any human intervention
- Easily adaptable to changing warehouse environments
- Obstacle detection capabilities ensure safe operation
- Predictable time consumption enables scheduling capabilities
- High operational accuracy levels
- Advanced battery specifications ensure an extended operating cycle

FEATURES

Autonomous Navigation

FlowT uses advanced sensors and mapping technologies to navigate autonomously in dynamic and complex environments.

Autonomous Pallet Detection

FlowT uses AI-powered pallet detection algorithms to identify slight deviations in pallet position, adjusting its handling for accurate picking or placing.

Customisation

FlowT offers customisable fork lengths, widths, spacing, and pallet detection, ensuring safety is not compromised.

Audio and Visual Alerts

Warning lights and audible warning signals alert humans while approaching turns or obstacles and alarm signal and alarm sound if safety fields are breached.

Fleet Management System

AI-powered - Fleet Management System controls several robots to complete the task efficiently.

Heavy duty performance

FlowT is equipped with hydraulic lifter mechanism for lifting and carrying heavy payloads upto 1000 Kg

Addverb Bot-Valley, Plot No.5, Sector-156
Noida, Uttar Pradesh-201310

automate@addverb.com

+91 9871590101