

# TONB

Software Development

## TONB AUTONOMOUS MOBILE ROBOT FLEET

Smart navigation with enhanced safety

Efficient, precise, and reliable operations

Customizable design, seamless integration







## Tonb Smart Fleet Management System

The Tonb Intelligent Fleet Management System is designed to manage and control autonomous robots within a synchronized ecosystem. This system receives tasks and distributes them based on the robots' location, conditions, and capabilities. Additionally, it continuously monitors all robots, detects potential traffic bottlenecks, and prevents congestion by dynamically adjusting their routes and speeds.



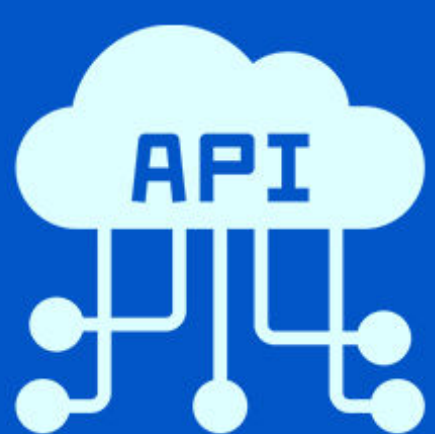
**Real-Time Fleet Monitoring**

**Smart Task Scheduling and Allocation**



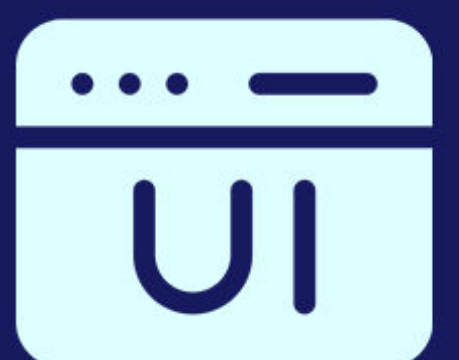
**Robot Traffic Management in Dynamic Environments**

**Performance Reporting for Fleet Optimization**



**Integration with Other Software (WMS, MES, etc.)**

**Optimized and User-Friendly Interface**



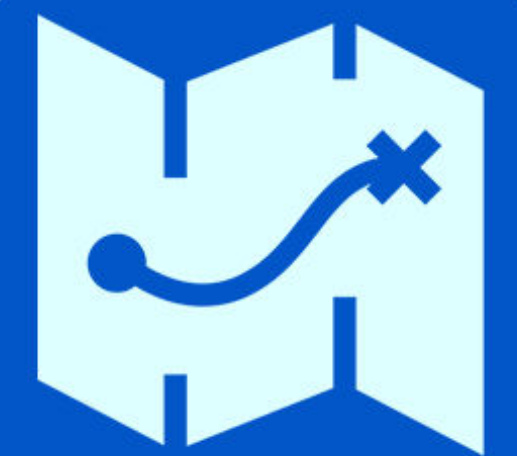




## TBOT-500 Autonomous Mobile Robot

The TBOT-500, an advanced autonomous mobile robot (AMR), has been meticulously designed and manufactured using the latest robotics technologies to facilitate material handling in production lines, warehouses, and other industrial settings. Unlike traditional automated guided vehicles (AGVs) that rely on predefined paths, the TBOT-500 autonomously navigates its environment, offering enhanced efficiency with minimal environmental modifications.

Fully autonomous navigation, No environmental modifications.



360

Precision Navigation with Laser Sensors and Cameras

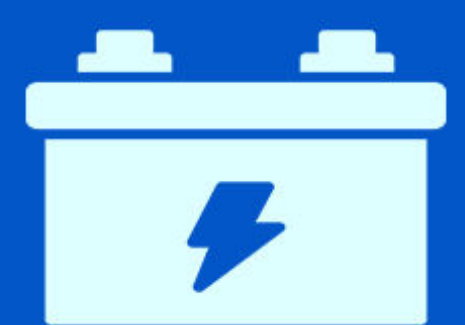
Smart Obstacle Avoidance for Safety



Automatic Docking for Charging (Wired/Wireless) and Loading



8-Hour Operation with 1-Hour Runtime on 10-Minute Charge



Safe and Easy Manual Control





# TBOT-500 Specifications

Parameter	Value	Parameter	Value
Payload	500 kg	Weight	200 kg
Speed	1.1 m/s	Dimensions	1300 × 920 × 490 mm
Operation Time	8 hrs.	Ground Clearance	40 mm
Recharge Time	2 hrs.	Lifting Stroke	5 cm
Battery	LiFePO4	Lifter Area	1000 × 800 mm

## About Tonb

At Tonb, we specialize in designing and manufacturing cutting-edge autonomous mobile robots (AMRs) tailored to meet the dynamic needs of modern industries. With a focus on innovation, efficiency, and safety, our solutions empower businesses to optimize material handling, streamline operations, and adapt seamlessly to ever-evolving industrial challenges.

Our flagship product, the TBOT-500, exemplifies our commitment to excellence—offering advanced navigation technologies, modular designs, and robust fleet management systems that ensure reliability and precision in the most demanding environments.

Driven by a passion for technological advancement and customer success, Tonb combines expertise in robotics, software development, and system integration to deliver intelligent, scalable solutions that transform workflows across automotive, food, chemical, and other industries. We are proud to be a trusted partner in the journey toward smarter, safer, and more efficient industrial operations.



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