

Collaborative Mobile Robot

P200

PLATFORM SERIES

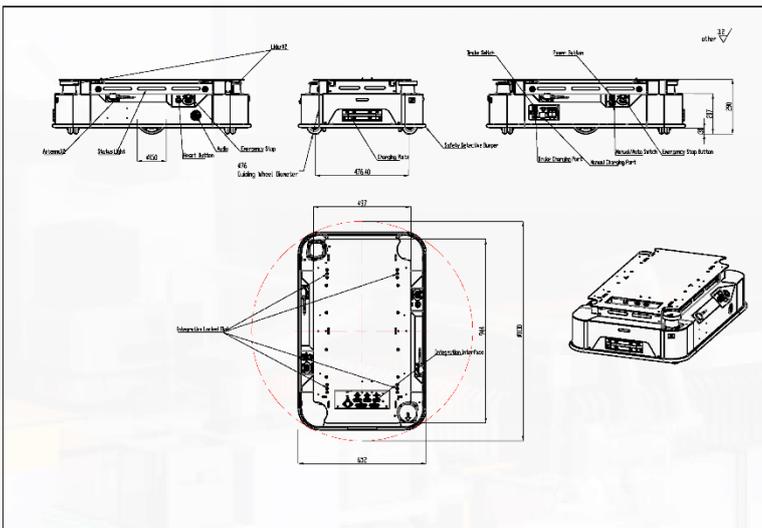
- ◆ 200 KG Payload
- ◆ Built-in Power Supply for Top Module
- ◆ ≥10 Hours Runtime (Standalone)
- ◆ Various Interfaces for Top Module Integration
- ◆ Safety Design for Emergency Override
- ◆ Flexible Deployment and Cluster Dispatching



PRODUCT INTRODUCTION

ABOUT P200

P200 is a versatile solution designed to handle complicated material handling tasks in the manufacturing facilities. It is built with general-purpose interfaces for top module and cobot integration, and larger rated capacity battery to support a full day of operation for both AMR and top modules. P200 supports over various kinds of top modules and cobot to tackle any material transport tasks in warehouses, cleanrooms and production lines.



- ◆ P200 is based on Laser SLAM's navigation technologies. It achieves repetitive indoor positioning precision at ± 10 mm and allows to dock with various of interface.
- ◆ The YUIFLEET dispatching system allows a fleet collaboration of up to 1,000 AMRs under same operation area, enabling a real 'light-out' operation.
- ◆ **Electrical and safety interfaces for top module integration:** Top compartment contains I/O, ethernet, WLAN, power and auxiliary safety interfaces required for cobot and top module integration, offering versatility for solution customization.

SPECIFICATION

| Category | Item | Parameter |
|----------------------|-----------------------|---|
| Main Body | Size | 1016*652*290mm |
| | Weight | 180KG |
| | Turning Diameter | 1130mm |
| | Navigation Mode | Lidar SLAM |
| | Positioning Accuracy | Positioning Precision: ± 10 mm; Angle Precision: $\pm 1^\circ$ |
| Mobility Performance | Max. Payload | 200Kg |
| | Max. Speed | 1.5 m/s No-loaded; 1.0 m/s Full-loaded |
| | Rated Speed | 1.2 m/s No-loaded; 0.8 m/s Full-loaded |
| | Path Planning | Visual tracking/autonomous planning |
| Power & Battery | Battery Type | Lithium iron phosphate, 60Ah |
| | Battery Life | Cycle life $\geq 2,000$ cycles; DoD $\geq 80\%$ |
| | Battery Runtime | ≥ 10 H |
| | Anti-collision Strip | 360° Full Protection |
| Safety Design | Lidar Design | Diagonal Distribution |
| | Emergency Stop Button | Left and Right Sides |

