PUDU

PUDU T300 Order-to-Person Solution

The PUDU T300 intelligent warehouse solution achieves a deeply integrated system by combining a cloud-based computing hub with the Warehouse Management System (WMS), establishing an automated picking operation framework that enables real-time order data processing and coordinated multi-robot scheduling.

This solution adopts a non-intrusive deployment model, allowing it to adapt to diverse warehouse layouts without requiring modifications to the existing environment. Its dynamic path planning algorithm continuously calculates the optimal route for the robot, enabling a daily order processing capacity increase of up to 2–3 times and achieving a picking accuracy of up to 99.95%.

1. **Order Wave Generation**
   Order waves generated by WMS
2. **Task Acquisition**
   T300 receives tasks in real time
3. **Intelligent Picking**
   Multi-robot collaboration
4. **Automatic Transport**
   Precise delivery to packing station
5. **Order Verification**
   Execution Data Feedback

Value

Boosted Efficiency

Order picking efficiency increased by up to 3×, accelerating logistics speed.

Rapid Deployment

Deployment time < 1 week;
ROI cycle: 1–2 years.

Reduced Costs

Minimizing walking distance during picking reduces labor costs by up to 40% and improves operational efficiency.

Product Advantage

200%

Increased UPH

Smart scheduling algorithms significantly boost processing efficiency per unit time.

99.95%

Picking Accuracy

The system ensures highly precise picking operations.

1–2 Years

ROI Period

Substantially reduces operational costs and delivers fast return on investment.

1 Week

Rapid Deployment

Flexible setup with no need for warehouse modifications.

Intelligent

Multi-Robot Collaboration

Cloud-based computing enables seamless coordination across multiple robots.

Seamless

System Integration

Deep integration with WMS for real-time data synchronization.

Cloud-Based Computing Platform

Intelligent Scheduling System	Data Analytics Platform	System Advantages
· Real-time order analysis and wave optimization	· Real-time operational data monitoring	· Distributed computing architecture
· Multi-robot collaborative scheduling algorithms	· Intelligent forecasting and decision support	· Millisecond-level response time
· Dynamic path planning and obstacle avoidance	· Performance optimization and fault warning	· 99.99% system availability

Product Specifications

Dimensions	835 mm * 500 mm * 1350 mm (32.87 in × 19.69 in × 53.15 in)	**Machine Weight**	81 kg (143.3 lbs)
Max. Speed	1.2 m/s (3.94 ft/s)	**Run-time (No Load)**	12 h
Loading Capacity	300 kg (661.4 lbs)	**Charging Time**	2 h (0% to 90%)

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