

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 62
Average Utilization: 81.9%
Throughput Increase: 34.2%
Labor Cost Reduction: 28.5%
ROI Period: 2.3 years

Warehouse Performance

Warehouse Location		Capacity Used	Inbound/Day	Outbound/Day	Picking Accuracy	Automation Level	Status
Distribution Center A	Chicago, IL	107.1%	1,119	1,622	97.7%	77.5%	Improvement Needed
Distribution Center B	Dallas, TX	100.7%	1,414	1,798	99.3%	91.6%	Optimized
Distribution Center C	Atlanta, GA	53.1%	1,453	2,853	98.6%	88.0%	Optimized
Distribution Center D	Los Angeles, CA	44.7%	2,546	2,010	97.8%	61.5%	Improvement Needed
Distribution Center E	Newark, NJ	94.4%	2,510	2,845	97.3%	91.0%	Optimized

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Implement voice-

picking
system to
improve
accuracy to
99.8%

- Upgrade WMS integration for real-time inventory visibility

- Add automated sortation system for small package handling

- Implement predictive analytics for demand-based staffing

- Consider AS/RS system for high-velocity SKUs