

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 58
Average Utilization: 77.1%
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	73.6%	1,119	3,779	98.0%	91.5%	Optimized
Distribution Center B	Dallas, TX	69.5%	1,143	2,196	97.3%	60.8%	Improvement Needed
Distribution Center C	Atlanta, GA	36.6%	1,401	3,171	95.7%	67.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	64.6%	2,309	2,680	96.9%	81.3%	Optimized
Distribution Center E	Newark, NJ	69.4%	1,409	2,770	95.7%	84.2%	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