

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 29
Average Utilization: 77.7%
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	62.4%	1,001	1,632	98.1%	81.3%	Optimized
	Dallas, TX	91.0%	2,876	2,777	99.5%	66.0%	Improvement Needed
Distribution Center B	Atlanta, GA	86.1%	2,999	2,101	97.4%	83.0%	Optimized
Distribution Center C	Los Angeles, CA	72.9%	2,196	3,818	95.8%	85.6%	Optimized
Distribution Center D	Newark, NJ	62.4%	1,426	2,549	95.5%	72.6%	Improvement Needed
Distribution Center E							

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