

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 72
Average Utilization: 76.6%
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	109.4%	1,383	3,806	96.2%	88.3%	Optimized
	Dallas, TX	51.6%	1,832	3,623	95.7%	60.9%	Improvement Needed
Distribution Center B	Atlanta, GA	62.1%	2,957	3,746	95.3%	86.1%	Optimized
Distribution Center C	Los Angeles, CA	75.3%	1,565	3,375	96.5%	60.0%	Improvement Needed
	Newark, NJ	81.3%	1,967	2,337	95.8%	87.6%	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