

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 46
Average Utilization: 83.5%
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	89.2%	1,044	2,466	95.2%	83.1%	Optimized
	Dallas, TX	45.9%	1,348	3,943	97.3%	87.9%	Optimized
	Atlanta, GA	67.5%	2,313	3,947	97.2%	93.0%	Optimized
	Los Angeles, CA	30.9%	1,396	3,076	98.7%	81.1%	Optimized
	Newark, NJ	50.1%	1,477	3,225	95.0%	72.5%	Improvement Needed

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