

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 45
Average Utilization: 83.1%
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	67.7%	2,453	1,776	97.6%	88.4%	Optimized
	Dallas, TX	79.7%	1,374	2,574	97.1%	81.2%	Optimized
	Atlanta, GA	82.4%	1,987	2,063	95.8%	81.8%	Optimized
	Los Angeles, CA	112.7%	1,507	2,604	98.1%	75.7%	Improvement Needed
	Newark, NJ	105.8%	2,271	1,536	97.1%	88.4%	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