

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 34
Average Utilization: 85.6%
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	48.3%	2,592	3,655	97.7%	87.2%	Optimized
	Dallas, TX	70.4%	1,288	3,131	95.4%	88.3%	Optimized
	Atlanta, GA	40.7%	1,459	3,991	96.7%	93.5%	Optimized
	Los Angeles, CA	85.5%	2,360	2,748	96.2%	80.6%	Optimized
	Newark, NJ	63.3%	1,528	3,524	98.0%	78.4%	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