

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: 84.1%
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	57.4%	1,637	2,848	98.0%	91.5%	Optimized
	Dallas, TX	66.9%	2,811	3,076	95.8%	86.2%	Optimized
Distribution Center B	Atlanta, GA	89.4%	1,751	2,482	98.7%	67.9%	Improvement Needed
	Los Angeles, CA	101.0%	2,878	3,693	97.5%	85.4%	Optimized
Distribution Center D	Newark, NJ	55.6%	2,560	2,462	99.4%	89.6%	Optimized
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