

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 49
Average Utilization: 89.5%
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	108.5%	1,125	3,247	95.6%	89.2%	Optimized
	Dallas, TX	37.4%	1,836	1,517	97.9%	81.6%	Optimized
	Atlanta, GA	79.9%	2,863	1,954	96.0%	93.6%	Optimized
	Los Angeles, CA	43.2%	2,343	2,984	97.3%	94.8%	Optimized
	Newark, NJ	55.7%	1,059	1,894	95.4%	88.5%	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