

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 59
Average Utilization: 82.7%
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	72.3%	1,044	3,345	97.8%	80.7%	Optimized
	Dallas, TX	120.1%	1,356	3,032	98.9%	90.4%	Optimized
	Atlanta, GA	70.5%	1,906	3,453	97.9%	85.6%	Optimized
	Los Angeles, CA	57.8%	2,107	3,644	95.7%	81.5%	Optimized
	Newark, NJ	54.4%	2,249	3,314	96.6%	75.3%	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