

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 41
Average Utilization: 87.2%
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	96.7%	1,150	3,146	96.2%	92.1%	Optimized
	Dallas, TX	57.7%	1,946	2,746	96.5%	90.0%	Optimized
	Atlanta, GA	61.1%	1,997	2,181	95.6%	93.9%	Optimized
	Los Angeles, CA	44.4%	2,435	1,902	98.9%	88.5%	Optimized
	Newark, NJ	57.0%	2,738	2,835	96.7%	71.3%	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