

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 26
Average Utilization: 86.2%
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	66.2%	2,118	3,435	97.2%	66.4%	Improvement Needed
Distribution Center B	Dallas, TX	57.8%	1,410	1,750	98.6%	86.5%	Optimized
Distribution Center C	Atlanta, GA	57.2%	2,670	2,765	96.6%	95.0%	Optimized
Distribution Center D	Los Angeles, CA	48.5%	1,084	3,689	95.2%	90.1%	Optimized
Distribution Center E	Newark, NJ	109.7%	1,706	1,645	99.3%	93.3%	Optimized

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