

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 66
Average Utilization: 73.4%
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	75.7%	1,991	2,494	97.0%	61.4%	Improvement Needed
Distribution Center B	Dallas, TX	77.2%	2,774	3,393	95.1%	79.9%	Improvement Needed
Distribution Center C	Atlanta, GA	99.9%	1,660	1,571	98.8%	79.9%	Improvement Needed
Distribution Center D	Los Angeles, CA	70.0%	2,188	3,389	98.9%	72.9%	Improvement Needed
Distribution Center E	Newark, NJ	84.6%	2,252	2,102	96.8%	73.0%	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