

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: 68.7%
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	81.4%	2,753	1,747	95.2%	69.1%	Improvement Needed
Distribution Center B	Dallas, TX	56.1%	2,791	2,456	95.6%	69.3%	Improvement Needed
Distribution Center C	Atlanta, GA	117.2%	2,137	2,699	95.4%	63.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	47.0%	1,686	3,126	96.6%	78.2%	Improvement Needed
Distribution Center E	Newark, NJ	53.9%	1,235	3,752	97.1%	63.5%	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