

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 63
Average Utilization: 66.8%
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	75.3%	2,346	3,586	96.6%	70.0%	Improvement Needed
Distribution Center B	Dallas, TX	61.0%	1,582	2,015	95.6%	61.7%	Improvement Needed
Distribution Center C	Atlanta, GA	92.3%	1,111	2,148	95.3%	63.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	47.3%	2,758	3,916	98.1%	65.8%	Improvement Needed
Distribution Center E	Newark, NJ	63.4%	2,314	1,803	98.6%	73.2%	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