

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 22
Average Utilization: 70.2%
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	78.7%	2,464	2,837	97.2%	66.2%	Improvement Needed
Distribution Center B	Dallas, TX	76.9%	1,322	2,335	97.6%	67.5%	Improvement Needed
Distribution Center C	Atlanta, GA	70.3%	2,769	3,671	97.2%	79.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	90.3%	1,397	3,327	95.7%	69.8%	Improvement Needed
Distribution Center E	Newark, NJ	84.6%	1,603	3,493	96.3%	68.0%	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