

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 36
Average Utilization: 79.3%
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	64.2%	1,511	3,554	99.0%	81.5%	Optimized
	Dallas, TX	63.9%	2,573	3,007	96.9%	87.6%	Optimized
Distribution Center B	Atlanta, GA	35.0%	1,967	3,043	99.5%	90.6%	Optimized
Distribution Center C	Los Angeles, CA	96.7%	2,685	2,252	96.4%	64.2%	Improvement Needed
Distribution Center D	Newark, NJ	98.1%	2,904	1,706	96.1%	72.6%	Improvement Needed
Center E							

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