

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 52
Average Utilization: 79.0%
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	80.8%	1,250	3,830	96.9%	81.0%	Optimized
	Dallas, TX	76.5%	2,300	3,291	99.2%	73.9%	Improvement Needed
Distribution Center B	Atlanta, GA	75.9%	2,980	3,508	97.5%	87.8%	Optimized
	Los Angeles, CA	58.3%	1,625	3,355	96.1%	61.3%	Improvement Needed
Distribution Center C	Newark, NJ	38.9%	1,798	1,649	97.9%	90.7%	Optimized

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