

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 33
Average Utilization: 76.8%
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	39.2%	2,775	1,727	96.1%	81.4%	Optimized
	Dallas, TX	50.3%	1,177	2,834	96.2%	82.3%	Optimized
	Atlanta, GA	113.1%	1,217	2,183	99.2%	71.6%	Improvement Needed
Distribution Center B	Los Angeles, CA	54.0%	2,733	2,885	99.5%	62.9%	Improvement Needed
Distribution Center C	Newark, NJ	53.2%	2,999	3,195	97.7%	85.8%	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