

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 44
Average Utilization: 78.5%
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 Status	
Distribution Center A	Chicago, IL	55.9%	1,933	3,971	96.7%	90.5%	Optimized
	Dallas, TX	70.0%	1,359	1,713	96.0%	64.9%	Improvement Needed
Distribution Center B		Atlanta, GA	1,298	3,755	98.8%	60.5%	Improvement Needed
Distribution Center C							
Distribution Center D		Los Angeles, CA	1,468	3,293	96.3%	91.8%	Optimized
Distribution Center E		Newark, NJ	1,786	2,062	97.3%	84.6%	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