

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 53
Average Utilization: 77.4%
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	55.7%	1,714	2,083	96.1%	94.8%	Optimized
	Dallas, TX	78.8%	2,702	2,088	96.6%	64.3%	Improvement Needed
Distribution Center B	Atlanta, GA	86.9%	2,988	2,302	95.7%	80.7%	Optimized
Distribution Center C	Los Angeles, CA	63.3%	1,873	2,246	99.3%	61.1%	Improvement Needed
	Newark, NJ	72.3%	1,569	3,828	98.5%	85.9%	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