

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 68
Average Utilization: 80.6%
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	67.7%	2,013	2,499	96.9%	90.9%	Optimized
	Dallas, TX	90.3%	2,291	2,338	95.6%	63.7%	Improvement Needed
Distribution Center B	Atlanta, GA	92.3%	1,263	2,307	96.1%	78.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	51.0%	1,647	3,035	97.9%	87.5%	Optimized
Distribution Center E	Newark, NJ	67.7%	2,858	3,737	98.9%	82.6%	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