

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 31
Average Utilization: 81.3%
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	67.8%	1,803	3,144	98.9%	88.4%	Optimized
	Dallas, TX	38.8%	1,304	3,684	97.3%	68.5%	Improvement Needed
Distribution Center B	Atlanta, GA	57.6%	1,802	2,746	98.1%	84.9%	Optimized
Distribution Center C	Los Angeles, CA	42.6%	1,332	2,621	99.4%	89.9%	Optimized
Distribution Center D	Newark, NJ	85.8%	2,997	2,405	98.0%	74.9%	Improvement Needed
Distribution Center E							

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