

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 63
Average Utilization: 82.3%
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	68.9%	1,566	3,370	99.3%	89.2%	Optimized
	Dallas, TX	41.5%	2,378	1,719	98.1%	80.6%	Optimized
Distribution Center B	Atlanta, GA	74.3%	1,476	3,097	98.6%	74.9%	Improvement Needed
Distribution Center C	Los Angeles, CA	72.0%	2,947	3,756	99.4%	92.8%	Optimized
Distribution Center D	Newark, NJ	57.1%	2,758	3,575	95.2%	74.3%	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