

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 52
Average Utilization: 79.9%
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	85.9%	2,264	1,729	95.7%	89.5%	Optimized
	Dallas, TX	41.5%	2,341	3,625	99.3%	82.7%	Optimized
Distribution Center B	Atlanta, GA	54.9%	1,408	3,266	95.6%	71.7%	Improvement Needed
Distribution Center C	Los Angeles, CA	40.8%	1,432	3,933	95.5%	94.7%	Optimized
Distribution Center D	Newark, NJ	68.4%	1,672	2,502	97.1%	60.8%	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