

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 55
Average Utilization: 77.9%
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	99.8%	1,456	2,783	97.5%	86.1%	Optimized
	Dallas, TX	62.4%	1,835	1,694	96.1%	66.5%	Improvement Needed
Distribution Center B	Atlanta, GA	58.5%	1,890	2,211	95.8%	80.2%	Optimized
Distribution Center C	Los Angeles, CA	73.1%	2,736	3,795	97.0%	66.2%	Improvement Needed
	Newark, NJ	50.8%	2,468	2,560	98.4%	90.3%	Optimized
Distribution Center D							
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