

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 45
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 Level	Status
Distribution Center A	Chicago, IL	57.2%	1,561	1,857	99.3%	65.9%	Improvement Needed
Distribution Center B	Dallas, TX	37.6%	1,159	1,840	97.1%	92.5%	Optimized
Distribution Center C	Atlanta, GA	62.6%	1,101	1,841	95.2%	65.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	58.2%	1,710	2,247	96.7%	85.2%	Optimized
Distribution Center E	Newark, NJ	55.2%	1,896	3,382	99.3%	93.9%	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