

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 37
Average Utilization: 83.6%
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	35.2%	1,352	2,088	97.0%	87.4%	Optimized
	Dallas, TX	34.1%	1,206	3,211	96.5%	79.4%	Improvement Needed
Distribution Center B	Atlanta, GA	92.5%	2,562	2,094	95.3%	86.0%	Optimized
	Los Angeles, CA	72.1%	1,163	3,560	96.3%	70.2%	Improvement Needed
Distribution Center D	Newark, NJ	76.6%	1,482	3,814	95.9%	94.9%	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