

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 25
Average Utilization: 79.8%
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	69.7%	1,882	3,514	97.6%	84.2%	Optimized
	Dallas, TX	35.5%	2,646	3,505	98.2%	64.3%	Improvement Needed
Distribution Center B	Atlanta, GA	97.3%	2,481	2,980	98.2%	84.5%	Optimized
Distribution Center C	Los Angeles, CA	85.9%	2,698	3,528	95.5%	92.0%	Optimized
Distribution Center D	Newark, NJ	76.4%	2,614	1,889	97.2%	74.1%	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