

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 71
Average Utilization: 82.5%
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	61.5%	2,751	2,404	95.8%	90.4%	Optimized
	Dallas, TX	65.1%	2,117	1,568	95.9%	69.0%	Improvement Needed
Distribution Center B	Atlanta, GA	103.1%	2,012	2,396	96.2%	89.3%	Optimized
Distribution Center C	Los Angeles, CA	38.1%	2,643	1,865	95.5%	70.6%	Improvement Needed
	Newark, NJ	105.8%	2,555	3,966	99.4%	93.0%	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