

Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Use Case: warehouse-automation

Automation Overview

Total Warehouses: 5
Total Robots: 79
Average Utilization: 73.8%
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	89.2%	2,573	2,863	98.0%	78.2%	Improvement Needed
Distribution Center B	Dallas, TX	71.0%	2,163	2,746	98.5%	69.1%	Improvement Needed
Distribution Center C	Atlanta, GA	75.3%	1,898	3,395	96.2%	87.9%	Optimized
Distribution Center D	Los Angeles, CA	37.9%	1,669	3,940	97.0%	73.5%	Improvement Needed
Distribution Center E	Newark, NJ	96.3%	2,487	3,614	99.4%	60.3%	Improvement Needed

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