Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Automation Overview

Total Warehouses: 5
Total Robots: 65
Average Utilization: 71.2%
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	77.8%	1,330	2,270	99.4%	71.2%	Improvement Needed
Distribution Center B	Dallas, TX	67.0%	2,931	3,285	97.0%	74.7%	Improvement Needed
Distribution Center C	Atlanta, GA	112.1%	2,736	2,812	98.0%	67.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	53.4%	1,438	3,062	97.4%	71.7%	Improvement Needed
Distribution Center E	Newark, NJ	69.5%	2,002	2,313	98.5%	71.0%	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