Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 35
Average Utilization: 71.9%
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	76.7%	1,833	2,109	99.1%	73.0%	Improvement Needed
Distribution Center B	Dallas, TX	58.4%	1,085	3,634	97.0%	77.3%	Improvement Needed
Distribution Center C	Atlanta, GA	61.9%	1,132	3,900	98.9%	62.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	62.7%	1,741	2,480	98.4%	70.7%	Improvement Needed
Distribution Center E	Newark, NJ	78.3%	1,025	1,630	99.2%	76.7%	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