Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 36
Average Utilization: 69.2%
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	92.7%	2,224	3,822	97.8%	64.2%	Improvement Needed
Distribution Center B	Dallas, TX	79.3%	1,562	1,566	98.9%	66.3%	Improvement Needed
Distribution Center C	Atlanta, GA	113.7%	1,950	3,441	98.5%	68.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	49.9%	1,676	2,410	95.5%	73.7%	Improvement Needed
Distribution Center E	Newark, NJ	43.7%	2,079	1,812	96.0%	73.3%	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