Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 65
Average Utilization: 68.8%
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	126.4%	1,894	3,413	96.3%	61.8%	Improvement Needed
Distribution Center B	Dallas, TX	89.8%	2,709	1,871	96.3%	74.1%	Improvement Needed
Distribution Center C	Atlanta, GA	60.9%	2,005	3,870	98.6%	74.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	74.5%	1,462	3,241	95.8%	72.3%	Improvement Needed
Distribution Center E	Newark, NJ	50.1%	1,594	1,699	95.9%	61.4%	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