Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 55
Average Utilization: 72.2%
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	65.8%	2,422	2,596	96.9%	81.8%	Optimized
Distribution Center B	Dallas, TX	66.1%	2,066	3,168	96.9%	70.9%	Improvement Needed
Distribution Center C	Atlanta, GA	92.0%	2,971	2,358	99.1%	73.2%	Improvement Needed
Distribution Center D	Los Angeles, CA	79.1%	2,413	1,940	97.2%	68.5%	Improvement Needed
Distribution Center E	Newark, NJ	71.2%	2,004	2,640	98.8%	66.6%	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