Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 54
Average Utilization: 71.5%
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	57.9%	1,492	3,253	98.9%	78.8%	Improvement Needed
Distribution Center B	Dallas, TX	42.7%	2,747	2,333	97.7%	79.1%	Improvement Needed
Distribution Center C	Atlanta, GA	83.5%	2,850	3,356	98.3%	66.9%	Improvement Needed
Distribution Center D	Los Angeles, CA	104.1%	1,490	2,282	96.8%	63.2%	Improvement Needed
Distribution Center E	Newark, NJ	93.7%	1,525	2,742	98.5%	69.7%	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