Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 48
Average Utilization: 64.9%
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	50.3%	2,268	2,207	99.4%	65.4%	Improvement Needed
Distribution Center B	Dallas, TX	87.7%	2,861	2,096	99.2%	73.5%	Improvement Needed
Distribution Center C	Atlanta, GA	72.9%	1,920	2,737	96.8%	60.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	40.1%	2,372	1,535	98.5%	63.2%	Improvement Needed
Distribution Center E	Newark, NJ	57.4%	2,972	2,712	97.0%	61.7%	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