Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 59
Average Utilization: 67.8%
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	89.3%	2,966	2,419	99.1%	62.5%	Improvement Needed
Distribution Center B	Dallas, TX	82.6%	1,375	2,225	98.8%	75.6%	Improvement Needed
Distribution Center C	Atlanta, GA	65.8%	1,984	1,981	96.0%	61.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	78.8%	1,616	3,373	97.5%	76.6%	Improvement Needed
Distribution Center E	Newark, NJ	86.9%	1,305	1,916	96.0%	63.5%	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