Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 44
Average Utilization: 68.4%
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	38.7%	2,291	3,918	96.5%	70.4%	Improvement Needed
Distribution Center B	Dallas, TX	62.0%	1,147	2,781	95.5%	60.5%	Improvement Needed
Distribution Center C	Atlanta, GA	81.1%	1,749	2,626	96.9%	68.8%	Improvement Needed
Distribution Center D	Los Angeles, CA	60.8%	1,531	1,572	96.4%	79.3%	Improvement Needed
Distribution Center E	Newark, NJ	54.7%	2,685	3,439	96.8%	63.3%	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