Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 67
Average Utilization: 71.7%
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	47.0%	1,146	2,891	95.5%	73.8%	Improvement Needed
Distribution Center B	Dallas, TX	71.1%	2,472	2,089	99.1%	70.8%	Improvement Needed
Distribution Center C	Atlanta, GA	37.2%	1,531	1,975	99.1%	67.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	74.5%	2,819	1,733	95.1%	74.3%	Improvement Needed
Distribution Center E	Newark, NJ	133.7%	2,582	1,746	96.1%	71.7%	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