Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 45
Average Utilization: 67.3%
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	56.6%	2,146	2,151	98.5%	64.2%	Improvement Needed
Distribution Center B	Dallas, TX	53.5%	1,083	3,841	96.9%	77.7%	Improvement Needed
Distribution Center C	Atlanta, GA	97.1%	2,726	2,135	97.9%	67.4%	Improvement Needed
Distribution Center D	Los Angeles, CA	94.0%	2,064	3,514	96.3%	61.6%	Improvement Needed
Distribution Center E	Newark, NJ	127.6%	1,444	1,728	97.6%	65.7%	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