Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 55
Average Utilization: 66.2%
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	56.8%	1,834	2,094	98.1%	68.9%	Improvement Needed
Distribution Center B	Dallas, TX	99.9%	2,601	3,194	96.4%	61.7%	Improvement Needed
Distribution Center C	Atlanta, GA	64.2%	1,512	3,900	97.1%	60.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	59.7%	1,662	1,830	98.1%	75.1%	Improvement Needed
Distribution Center E	Newark, NJ	67.5%	1,762	3,882	95.4%	64.7%	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