Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 44
Average Utilization: 69.4%
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	44.5%	2,757	2,424	96.3%	60.9%	Improvement Needed
Distribution Center B	Dallas, TX	84.2%	1,266	2,137	98.6%	60.9%	Improvement Needed
Distribution Center C	Atlanta, GA	74.3%	2,331	1,654	97.8%	77.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	75.1%	1,552	3,809	97.8%	80.9%	Optimized
Distribution Center E	Newark, NJ	99.2%	2,100	3,390	97.8%	66.9%	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