Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 29
Average Utilization: 76.3%
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	43.5%	2,424	3,643	96.9%	69.3%	Improvement Needed
Distribution Center B	Dallas, TX	55.0%	2,484	3,162	99.2%	78.2%	Improvement Needed
Distribution Center C	Atlanta, GA	58.5%	2,538	3,157	95.6%	74.9%	Improvement Needed
Distribution Center D	Los Angeles, CA	39.2%	1,873	2,394	98.3%	90.5%	Optimized
Distribution Center E	Newark, NJ	70.2%	2,275	3,126	96.1%	68.5%	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