Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 48
Average Utilization: 81.4%
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	82.3%	2,954	2,509	96.3%	93.4%	Optimized
Distribution Center B	Dallas, TX	85.2%	1,940	2,148	98.2%	74.2%	Improvement Needed
Distribution Center C	Atlanta, GA	54.8%	1,566	3,154	95.9%	92.6%	Optimized
Distribution Center D	Los Angeles, CA	74.7%	1,625	1,786	97.2%	82.0%	Optimized
Distribution Center E	Newark, NJ	51.9%	1,787	2,200	98.9%	65.1%	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