Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 48
Average Utilization: 82.3%
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	52.8%	1,525	2,086	99.5%	88.4%	Optimized
Distribution Center B	Dallas, TX	88.9%	1,413	2,634	97.0%	78.2%	Improvement Needed
Distribution Center C	Atlanta, GA	92.4%	1,363	2,471	96.0%	82.3%	Optimized
Distribution Center D	Los Angeles, CA	68.2%	2,691	3,290	96.5%	85.6%	Optimized
Distribution Center E	Newark, NJ	77.2%	2,926	3,639	96.2%	77.0%	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