Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 17
Average Utilization: 77.7%
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	67.1%	1,491	1,657	96.5%	72.6%	Improvement Needed
Distribution Center B	Dallas, TX	47.0%	2,938	2,114	95.5%	79.0%	Improvement Needed
Distribution Center C	Atlanta, GA	34.4%	2,364	3,907	98.3%	70.4%	Improvement Needed
Distribution Center D	Los Angeles, CA	84.5%	1,394	2,622	96.0%	73.4%	Improvement Needed
Distribution Center E	Newark, NJ	73.9%	2,268	2,847	96.7%	93.1%	Optimized

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