Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 40
Average Utilization: 73.6%
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	55.4%	1,690	3,957	98.9%	75.5%	Improvement Needed
Distribution Center B	Dallas, TX	81.6%	1,812	1,835	97.5%	71.1%	Improvement Needed
Distribution Center C	Atlanta, GA	61.8%	1,170	1,823	96.2%	89.7%	Optimized
Distribution Center D	Los Angeles, CA	81.5%	2,183	2,950	98.4%	63.7%	Improvement Needed
Distribution Center E	Newark, NJ	90.0%	1,124	2,830	95.4%	68.2%	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