Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 49
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	76.3%	2,755	3,755	95.5%	77.7%	Improvement Needed
Distribution Center B	Dallas, TX	67.4%	2,550	3,787	98.0%	90.8%	Optimized
Distribution Center C	Atlanta, GA	89.0%	1,527	3,478	98.5%	83.2%	Optimized
Distribution Center D	Los Angeles, CA	68.5%	2,655	2,242	96.4%	69.9%	Improvement Needed
Distribution Center E	Newark, NJ	66.0%	2,169	3,189	99.4%	66.9%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Imple

ment 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