Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 50
Average Utilization: 73.5%
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%	1,307	2,787	95.8%	76.0%	Improvement Needed
Distribution Center B	Dallas, TX	83.8%	1,559	3,566	98.7%	74.1%	Improvement Needed
Distribution Center C	Atlanta, GA	69.8%	1,550	2,354	97.4%	60.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	71.7%	2,114	3,484	97.9%	63.8%	Improvement Needed
Distribution Center E	Newark, NJ	61.8%	1,489	3,129	97.0%	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