Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 48
Average Utilization: 73.3%
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	88.3%	1,187	2,221	97.1%	84.6%	Optimized
Distribution Center B	Dallas, TX	108.6%	1,815	1,821	98.1%	65.2%	Improvement Needed
Distribution Center C	Atlanta, GA	55.8%	1,480	1,928	95.5%	86.6%	Optimized
Distribution Center D	Los Angeles, CA	55.1%	2,324	1,802	97.2%	64.7%	Improvement Needed
Distribution Center E	Newark, NJ	71.2%	1,358	2,184	95.2%	65.4%	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