Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 35
Average Utilization: 76.3%
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	67.6%	1,961	3,323	98.7%	85.4%	Optimized
Distribution Center B	Dallas, TX	56.5%	1,623	3,332	98.0%	87.4%	Optimized
Distribution Center C	Atlanta, GA	67.8%	2,616	3,733	98.2%	71.9%	Improvement Needed
Distribution Center D	Los Angeles, CA	71.5%	1,659	1,922	96.7%	66.6%	Improvement Needed
Distribution Center E	Newark, NJ	40.1%	1,421	3,775	99.0%	70.2%	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