Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 31
Average Utilization: 76.7%
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	90.7%	2,715	2,113	95.4%	70.7%	Improvement Needed
Distribution Center B	Dallas, TX	51.7%	2,608	2,826	97.3%	88.3%	Optimized
Distribution Center C	Atlanta, GA	74.2%	1,973	1,640	99.1%	74.2%	Improvement Needed
Distribution Center D	Los Angeles, CA	52.1%	2,535	3,077	98.2%	84.9%	Optimized
Distribution Center E	Newark, NJ	45.8%	2,211	3,834	98.2%	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