Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 59
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	43.0%	2,533	1,976	98.3%	69.4%	Improvement Needed
Distribution Center B	Dallas, TX	73.8%	1,884	3,826	97.2%	81.8%	Optimized
Distribution Center C	Atlanta, GA	65.3%	2,188	2,288	98.5%	77.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	47.5%	1,385	3,080	97.1%	82.1%	Optimized
Distribution Center E	Newark, NJ	101.5%	1,910	3,132	99.1%	72.6%	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