Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 57
Average Utilization: 80.4%
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	81.1%	1,490	3,363	99.5%	93.3%	Optimized
Distribution Center B	Dallas, TX	67.2%	2,967	3,203	95.4%	66.9%	Improvement Needed
Distribution Center C	Atlanta, GA	49.3%	2,402	2,040	98.3%	77.4%	Improvement Needed
Distribution Center D	Los Angeles, CA	41.8%	2,119	3,675	98.1%	85.6%	Optimized
Distribution Center E	Newark, NJ	52.7%	2,317	2,493	95.9%	79.0%	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