Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 62
Average Utilization: 77.5%
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	94.3%	2,499	2,040	97.8%	89.3%	Optimized
Distribution Center B	Dallas, TX	48.9%	2,275	1,584	99.2%	62.4%	Improvement Needed
Distribution Center C	Atlanta, GA	47.8%	2,225	1,706	98.1%	77.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	73.3%	2,083	2,179	95.7%	65.3%	Improvement Needed
Distribution Center E	Newark, NJ	78.4%	1,478	1,517	96.5%	93.3%	Optimized

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