Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 27
Average Utilization: 77.6%
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	105.2%	1,903	3,991	95.7%	65.7%	Improvement Needed
Distribution Center B	Dallas, TX	63.9%	1,281	2,829	99.3%	84.3%	Optimized
Distribution Center C	Atlanta, GA	83.2%	1,008	3,640	97.9%	89.2%	Optimized
Distribution Center D	Los Angeles, CA	81.1%	2,367	3,856	97.4%	77.1%	Improvement Needed
Distribution Center E	Newark, NJ	61.7%	1,431	2,269	98.4%	71.7%	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