Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 26
Average Utilization: 78.6%
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	77.5%	2,523	2,229	95.5%	87.4%	Optimized
Distribution Center B	Dallas, TX	52.9%	2,551	3,291	98.7%	90.8%	Optimized
Distribution Center C	Atlanta, GA	71.6%	2,254	3,275	98.5%	67.0%	Improvement Needed
Distribution Center D	Los Angeles, CA	71.3%	1,356	2,685	99.0%	75.5%	Improvement Needed
Distribution Center E	Newark, NJ	78.0%	2,505	2,765	97.3%	72.2%	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