Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 23
Average Utilization: 78.4%
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	62.0%	1,866	3,741	98.8%	70.6%	Improvement Needed
Distribution Center B	Dallas, TX	57.3%	2,825	3,173	99.2%	68.0%	Improvement Needed
Distribution Center C	Atlanta, GA	66.8%	1,764	2,385	98.7%	75.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	58.6%	2,207	3,446	96.7%	91.1%	Optimized
Distribution Center E	Newark, NJ	117.5%	1,884	2,951	99.5%	86.6%	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